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ANNUAL REPORT  
OF THE  
**Department of Public Health**  
PROVINCE OF ALBERTA  
INCLUDING  
**Vital Statistics Branch**  
**1932**

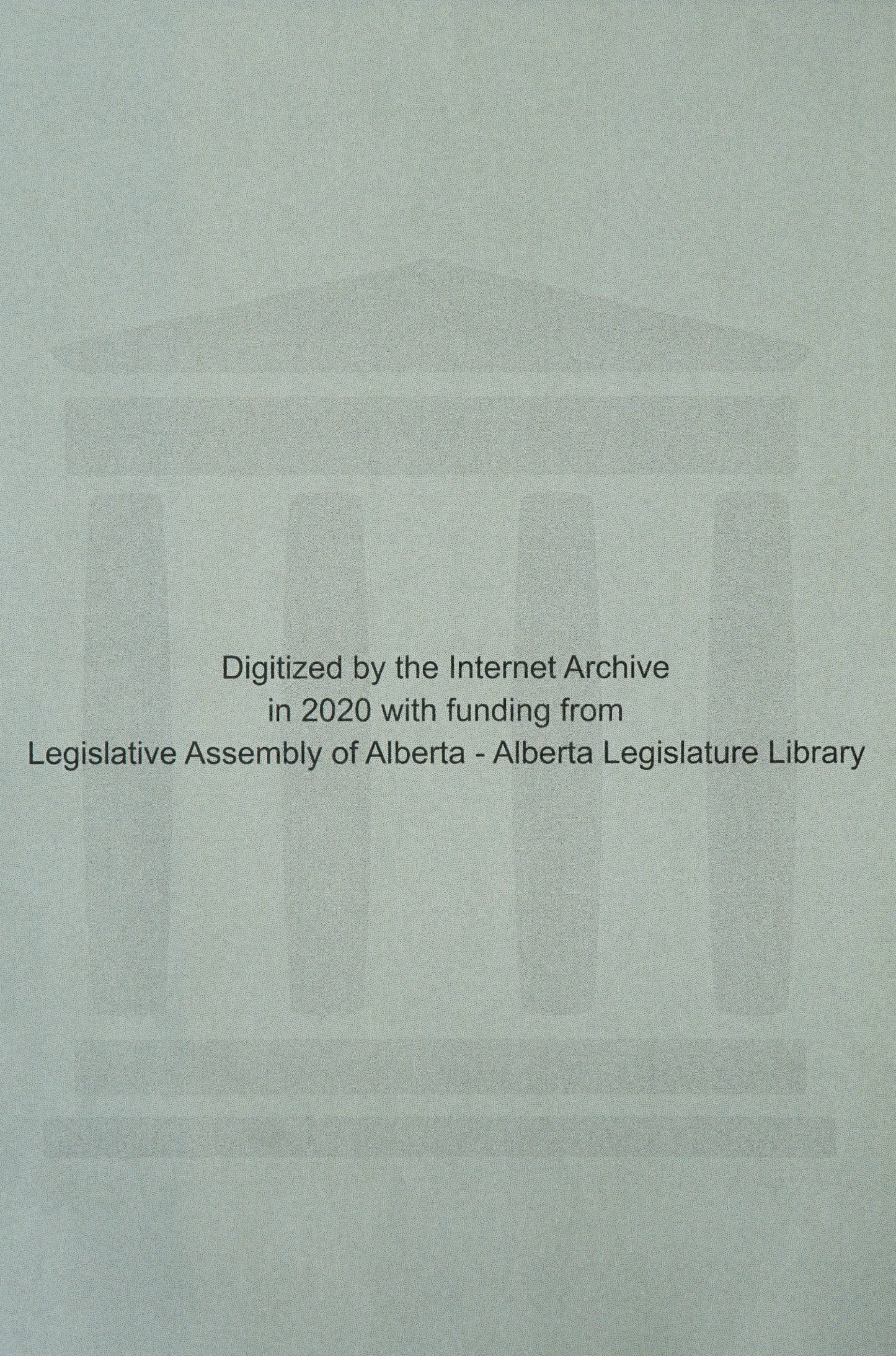
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PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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EDMONTON:  
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1933





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**Department of Public Health**  
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1933





Edmonton, December 19, 1933.

To His Honour

W. D. WALSH,

*Lieutenant Governor of the Province of Alberta.*

SIR,—

I have the honour to transmit herewith the Annual Report of the Department of Public Health for the year 1932.

I have the honour to be, Sir,

Your obedient servant,

GEORGE HOADLEY,

*Minister of Health.*







Edmonton, December 19, 1933.

TO THE HONOURABLE GEORGE HOADLEY,  
*Minister of Health,*  
Parliament Buildings, Edmonton, Alberta.

SIR,—

I have the honour to submit herewith the Fourteenth Annual Report of the Department of Health.

I have the honour to be, Sir,

Your obedient servant,

MALCOLM R. BOW, M.D., C.M., D.P.H.,  
*Deputy Minister.*







# FOURTEENTH ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH, INCLUDING THE VITAL STATISTICS REPORT

## THE DEPARTMENT

### *Divisions:*

1. Communicable Diseases.
2. Public Health Education.
3. Hospital Inspection.
4. Laboratory.
5. Public Health Nursing.
6. Municipal Hospitals.
7. Social Hygiene.
8. Sanitary Engineering and Sanitation.
9. Dental Hygiene.
10. Mental Health.
11. Institutions: Provincial Mental Hospital, Ponoka.  
Provincial Mental Institute, Oliver.  
Provincial Training School, Red Deer.  
Psychopathic Ward, University Hospital.  
Central Alberta Sanatorium, Calgary.
12. Vital Statistics Division.
13. General Administration.

A report giving a summary of the work of each of these divisions is included herewith.

## THE ADVISORY COMMITTEE OF HEALTH.

The Advisory Committee of Health met on February 3, 1932, with the following members in attendance:

- Mrs. J. H. Field, Spurfield, representing Rural Women.  
Mrs. W. J. Ross, Edmonton, representing Urban Women.  
Dr. W. A. Wilson, Edmonton, representing the Medical profession at large.  
Dr. Geo. R. Johnson, Calgary, representing the College of Physicians and Surgeons.  
Dr. D. Gow, Calgary, representing Medical Officers of Health.  
Mr. A. T. Stephenson, Red Deer, representing Municipal Hospitals.  
Dr. E. L. Pope, Edmonton, representing the Faculty of Medicine, University of Alberta.  
Mr. E. E. Roper, Edmonton, representing Urban Laymen.  
Dr. M. R. Bow, Deputy Minister of Health, Chairman.

The following questions were discussed by the Committee:

- Report of the work of the Red Deer and Okotoks-High River Full Time Health Districts.
- Infantile Mortality.
- Maternal Mortality.
- Midwives.
- Cancer.
- Proposed arrangement for accommodation of tuberculosis cases.
- Nutrition.
- Report of the work of the Eugenics Board.
- The importance of maintaining health appropriations for preventive purposes under present economic conditions.



Resolutions adopted by the Committee:

1. *Nutrition*.—Resolved that the various members of the Committee bring to the attention of the organizations with which they are identified, the vital importance of children being given a well balanced diet during these trying times.

2. *Maternal Mortality*.—Resolved that Dr. Geo. R. Johnson, Registrar, bring to the attention of the College of Physicians and Surgeons the question of maternal mortality with the suggestion that a committee be appointed to inquire into this question, and also, if possible, secure the co-operation of the district medical societies in making inquiry into all deaths from this cause and report.

3. It was further resolved that all hospitals in receipt of government aid and in which there is a training school for nurses be required to have all pupil nurses and all new staff nurses appointed given physical examinations, including X-ray examinations of the chest, before such pupil nurses or new staff nurses are accepted. And further, that X-ray examinations be done at intervals of twelve months throughout the period of training, and that a final examination be done before the time of graduation.

4. Resolved that the importance of maintaining existing health appropriations for preventive purposes under present economic conditions be recognized, and that the Provincial Government and the municipalities be urged to continue preventive services without reduction.

#### REGULATIONS PASSED DURING THE YEAR

Additions to the Public Health Regulations re cancer, February 13, 1932, under which cancer is made a notifiable disease.

#### LEGISLATION PASSED DURING THE YEAR

*The Municipal Hospitals Act, 1929, Amendment Act, 1932.*

An amendment provides that there be a uniform per diem fee for all hospital supporters, and does away with the differentiation now possible between extra-urban taxpayers and other taxpayers.

Provision is made for the calling of a meeting of the ratepayers of a hospital district upon the request in writing of 25 per cent. of the ratepayers of the district, or of one contributing council, instead of upon the request in writing of a majority of the contributing councils.

The board is empowered to pledge monies due to the board to secure the repayment of loans borrowed by the board.

A hospital board with the approval of the Board of Public Utilities Commissioners is given authority to compromise with a contributing council in respect of levies which such council may or ought to have made at any time prior to 1930.

*The Public Health Act Amendment Act, 1932.*

As the Act stands one-half of the costs of a public health unit scheme is chargeable to the municipalities interested. An amendment provides that the scheme shall set out what proportion of the costs shall be borne by such municipalities.



*The Hospitals Act Amendment Act, 1932.*

In case an indigent sick person is admitted into and receives hospital treatment without a written order from the local authority, such local authority shall nevertheless be liable, if in the opinion of the Superintendent or Medical Officer of the hospital, certified to the local authority by registered notice in given form that the case was one of urgent and sudden necessity; and if any dispute arises as to whether or not any case was one of urgent and sudden necessity, the question shall be referred to the Minister, whose decision shall be final.

Subsection (1) of Section 7 of the Act has been struck out and the following substituted therefor:

"Every local authority shall be liable for the hospital treatment of any indigent sick person in any case in which such person has been admitted to a hospital in conformity to the provisions of the next preceding section."

When a local authority has entered into a contract with a hospital for the accommodation and care of indigent persons and such indigent person is accommodated and cared for in any other hospital, the last mentioned hospital shall be entitled to recover from the local authority for the accommodation and care of such indigent, an amount calculated on the public ward rate charged by such hospital, or at two dollars and fifty cents per day, whichever is the lesser.

Provided that a hospital board shall only be entitled to such benefit if it notifies, in writing, the local authority of the accommodation and care of such indigent person as soon as reasonably possible.

The Minister is given authority to enter into agreements with extra-provincial hospitals for the hospitalization of indigent sick persons who are residents of a hospital district in Alberta, upon other provinces making similar reciprocal provisions.

The Minister may at any time enter into an agreement with the board of any hospital for the setting aside of a portion of such hospital for cases of tuberculosis.

The Minister may at any time enter into an agreement with any person for the reception of specified cases of tuberculosis.

The liability of a local authority for the care and reception of any person suffering from tuberculosis received into a hospital or any other place in pursuance of any agreement, shall not exceed the amount which would have been payable if such person had been a patient in the Sanatorium.



## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 1

## DEPARTMENT OF PUBLIC HEALTH

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING MARCH 31st, 1933				
Div. Vote.	Name.	Salaries.	Expenses.	Revenue.
1. 605.	Communicable Diseases .....	\$ 4,250.00	\$ 8,814.00	\$ 309.74
2. 602.	Public Health Education .....	3,400.00	1,598.42	.....
3. 603.	Hospital Inspection .....	4,900.00	1,833.70	360.00
	Grants .....		400,743.10	.....
4.	Laboratory .....			.....
5. 606.	Public Health Nursing and			
	Clinics .....	29,465.75	9,151.42	2,799.22
6. 608.	Municipal Hospitals .....	3,884.25	1,789.12	.....
	Charity and Relief .....			.....
7. 610.	Social Hygiene .....	9,097.98	9,531.90	3,252.11
8. 605.	Sanitary Engineering and Sani-			
	tation .....	9,285.70	26,328.82	800.20
9.	Dental Hygiene .....			.....
10. 622.	Mental Hygiene .....	8,867.90	11,368.19	.....
11.	Institutions .....			.....
	614. Provincial Mental Hospital,			
	Ponoka .....	276,470.50	109,704.80	138,715.81
	612. Provincial Mental Institute,			
	Oliver .....	74,445.62	30,097.26	30,428.69
	613. Provincial Training School,			
	Red Deer .....	49,683.87	21,587.64	37,525.13
	622. Psychopathic Ward, University			
	Hospital .....		16,160.15	1,559.00
	604. Central Alberta Sanatorium,			
	Calgary .....	116,813.71	57,895.74	123,461.69
	University Hospital .....		20,000.00	.....
12. 607.	Vital Statistics .....	15,465.17	6,556.66	30,261.86
	Grants to Homes .....		3,500.00	.....
	Administration .....	13,750.00	9,251.07	1,670.60
		\$619,780.41	\$745 911.99	\$371,144.05
TOTAL—Public Health Administration.....				\$1,365,692.40
TOTAL—Public Health Revenue .....				371,144.05
TOTAL—Public Health Net Cost .....				\$ 994,548.35

## GENERAL HEALTH CONDITIONS

While the economic situation has been even more difficult in 1932 than in the two preceding years, the favourable health conditions experienced in 1930 and 1931 have been well maintained. It is a remarkable fact that during this period of depression the most satisfactory health conditions in the history of the Province have been experienced. While some of the communicable diseases showed an increased incidence over the low incidence rates of 1931, there was, generally speaking, freedom from any serious outbreaks during the year. An outbreak of influenza of a milder type than that experienced in previous years developed in the southern part of the Province in November, and extended over a large section of the Province. Reference to the Vital Statistics Report indicates that 16,990 births, 5,054 marriages and 5,521 deaths were registered in 1932. The birth rate was 22.96 per 1,000 as compared with 23.57, the rate for 1931. The death rate was 7.46 per 1,000 as compared with 7.24, the rate for 1931.

The combined death rate (deaths per 100,000 population) for diphtheria, scarlet fever, measles and whooping cough was 8.3, as compared with the rate of 9.8 for 1931 and 20.5, the average rate for the last five years. Whooping cough accounted for 34 deaths, 54% of the 62 deaths due to these four diseases. The remarkable reduction in the number of cases of, and deaths from diphtheria in recent years, which was noted in the report of last year, has continued. In 1932 only 51 cases of diphtheria were reported, and ten deaths were registered as due to this disease, giving a diphtheria death rate of 1.3 per 100,000 population, the lowest rate ever recorded in the Province.

Diphtheria is a disease which can be practically eliminated as a cause of death, if we will see that all children and particularly all pre-school children are immunized. The toxoid required for immunization purposes is supplied free of charge by the Department. Much good work in diphtheria immunization has been done in the cities, in the two health units and in some of the towns and rural districts, but there are many thousand children unprotected, especially in the rural districts. In such districts outbreaks of diphtheria and deaths from this disease will be experienced sooner or later.

Only one case of smallpox was reported during the year. While this is a highly satisfactory record, the fact that we have a very large unvaccinated population in Alberta gives us cause for real concern. It has been demonstrated over and over again that when a severe type of smallpox breaks out in an unvaccinated population, the result is disastrous. Many of our outlying districts are much better protected against smallpox than our urban centres and rural municipalities. During 1932, 2,525 individuals in the more outlying districts were vaccinated by an inspector, who devotes part of his time to this work.

Fifty-two cases of typhoid fever were reported and 9 deaths occurred from this disease, giving a typhoid death rate of 1.2 per 100,000 for the year. This is the lowest rate in the history of the Province. The following table shows the number of cases reported, the number of deaths and the death rate from this disease from 1908 to 1932:

Year.	Cases.	Deaths.	Death Rate per 100,000
1908 .....	529	100	37.5
1909 .....	713	121	39.6
1910 .....	953	192	56.4
1911 .....	665	164	44.0
1912 .....	866	207	51.8
1913 .....	638	151	35.6
1914 .....	347	79	15.0
1915 .....	284	58	12.2
1916 .....	308	63	12.7
1917 .....	127	42	8.1
1918 .....	130	55	10.2
1919 .....	187	67	12.0
1920 .....	285	84	14.8
1921 .....	177	65	11.0
1922 .....	169	57	9.6
1923 .....	155	43	7.3
1924 .....	98	24	4.0
1925 .....	127	27	4.5
1926 .....	127	16	2.6
1927 .....	74	21	3.3
1928 .....	122	26	3.9
1929 .....	114	26	3.8
1930 .....	69	17	2.4
1931 .....	45	16	2.1
1932 .....	52	9	1.2
1933 .....	43	5	2.2

Contaminated water supplies, particularly in the irrigated districts, were responsible for most of the typhoid cases reported in 1932. It cannot be too strongly emphasized that water from streams and irrigation ditches must be considered unsafe and be boiled or chlorinated before being used, if the menace of typhoid fever in these districts is to be eliminated.

Influenza accounted for 297 deaths and pneumonia (all forms) for 362 deaths in 1932. We would again direct attention to the importance of proper ventilation and humidification of our homes, offices and schools during the winter months. "Indoor living," lack of exercise and lack of sunlight during the winter months constitute a serious health hazard.



*Tuberculosis.*

There were 401 deaths reported due to tuberculosis (all forms) in 1932, as compared with 385 deaths in 1931. Of this number, 313 were deaths from pulmonary tuberculosis. The death rate from tuberculosis was 54.18 per 100,000 population and 42.49 from the pulmonary type of the disease. Excluding the Indian population, the total number of deaths from all forms of tuberculosis was 238, and the death rate per 100,000 population was 32.16.

Two hundred and ten beds is the total accommodation available in the Sanatorium. In view of the length of time patients requiring Sanatorium treatment must wait for accommodation, and in view of the risk of infection to other members of the family and to the community, this is the most serious public health problem facing us today.

*Cancer.*

There were 539 deaths from cancer in 1932, an increase of 98 deaths over the number registered in 1931. The cancer death rate was 72.8 per 100,000 population, as compared with 60.0, the rate for 1931. Cancer accounted for 9.76% of the total deaths registered in 1932, taking second place as a cause of death. In common with other parts of the world, there has been a marked increase in the number of deaths from cancer in Alberta in recent years. More of our people are reaching the age period in which the disease is most prevalent. Not less than one-third of the deaths from cancer could be prevented if all cases were recognized in the earliest stages, and promptly and effectively treated. The fear of cancer must be removed, and the people educated to seek competent medical advice at the first sign of symptoms or indications which may mark the beginning of this disease, if these lives are to be saved.

The Department has continued to co-operate with the Cancer Committee of the Alberta Medical Association as in previous years. Cancer was by Order-in-Council made a notifiable disease on February 13, 1932, and 542 cases were reported by physicians and hospitals. A summary of the information submitted in these reports has been prepared by the Department. The Department has also co-operated with the Cancer Committee in its educational work, stressing the vital importance of the early recognition and the prompt and effective treatment of this disease.

*Infantile Mortality Rate.*

There were 997 deaths of children under one year of age in 1932, as compared with 1,197 such deaths in 1931, a reduction of 200 deaths. The infantile mortality rate for the year 1932 was 58.62, as compared with the rate of 69.4 for 1931 and 72.22, the average for the five-year period 1927 to 1931. As indicated in the last annual report, the infantile mortality rate for the rural districts and the towns and villages is, generally speaking, much higher than the rate for the larger cities in which provision has been made for efficient full-time public health service. In 1932 the average rate for the rural districts was 63.0, and for the cities of the Province 49.3.

Of the 997 deaths of children under one year of age, 404 occurred within the first week of life and 547 within the first month.

The principal causes of infant deaths were as follows:

Prematurity .....	279	Gastro-intestinal .....	136
Respiratory .....	156	Acute Contagious .....	112

The urgent need of well organized full-time local health service in our rural districts and smaller urban centres is made evident by a study of the causes of infantile deaths in these districts.

#### *Maternal Mortality.*

In 1932 sixty-four deaths of women were registered as due to conditions associated with childbirth. This represents the deaths of 3.76 mothers for every 1,000 children born. This is the lowest maternal death rate recorded in the history of the Province. The rate for each of the years 1927 to 1932 is as follows:

Year.	Rate.	Year.	Rate.
1927 .....	6.38	1930 .....	6.46
1928 .....	6.75	1931 .....	5.04
1929 .....	7.26	1932 .....	3.76

The problem of maternal mortality involves public health, social and economic questions, the solution of which must be found if many lives now sacrificed are to be saved. The need for more adequate and more efficient pre-natal, natal and post-natal care, particularly in our rural districts is apparent from a study of this problem.

#### FULL-TIME HEALTH DISTRICTS

The work of the Red Deer and the Okotoks-High River Full-time Health Districts, in which public health service was instituted on June 1st, 1931, has been carried on along much the same lines as in 1931. The staff of each of these units is composed of a medical officer of health, who has received special training to qualify him for his duties, two graduate nurses with special training in public health, one qualified sanitary inspector, whose time is divided between the two units, and a stenographer, who is responsible for the office work and records. Through the assistance of the Rockefeller Foundation in granting the fellowships, each medical officer of health was enabled to complete the public health course at the University of Toronto this year, and qualify for the diploma of public health.

These two health units were established for the purpose of demonstrating the value of the service rendered by a thoroughly qualified public health staff in dealing with the health problems of our rural districts and smaller urban centres. Each health unit has been fortunate in securing a well qualified and competent staff, and as a result the work of each unit has been maintained at a high level of efficiency since its inception.

The following is a brief summary of the work of each of the full-time health districts for the year 1932:

EDUCATIONAL:	Okotoks-High River	Red Deer
Letters .....	1,029	1,939
Reports .....	353	90
Conferences .....	8	18
CHILD HYGIENE:		
Babies and pre-school children examined .....	537	419
SANITATION:		
Inspections, public and private premises .....	589	517
LIFE EXTENSION:		
Examinations .....	113	139
COMMUNICABLE DISEASES:		
Visits to cases, carriers, suspects .....	246	483
Cases isolated .....	216	172
Contacts quarantined .....	25	69



IMMUNIZATION:		
Dick tests .....	7	7
Schick tests .....	115	299
Toxoid reaction tests .....	597	1,618
Toxoid inoculations .....	4,142	5,411
Smallpox vaccinations .....	581	2,370
Typhoid inoculations .....	36	10
SCHOOLS:		
Visits to schools .....	314	377
Children examined .....	2,482	1,515
Follow-up visits to homes .....	187	1,282
LABORATORY:		
Examinations .....	252	424

### PUBLIC HEALTH EDUCATIONAL WORK.

This work has been carried on in much the same manner as in previous years, but owing to the reduction in our appropriation it has been necessary to reduce this service. Lectures, exhibits, demonstrations, radio talks and health bulletins have been utilized as a means of emphasizing the necessity for and the value of preventive health measures.

During the year the lecturer addressed 167 meetings in 101 different places, at which the total attendance was 28,992.

Perhaps the outstanding feature of the work this year was the series of thirty meetings held in a New Canadian district north-east of Edmonton, and in which the response was most gratifying.

The demand for health educational service increases from year to year, but faced with the necessity of reducing expenditures it has been impossible to extend these services to many districts in which the need is great.

### PUBLIC HEALTH NURSING AND CHILD WELFARE

A public health nurse is in charge of each of the following Child Welfare Clinics: Edmonton, Calgary and Medicine Hat, and devotes her whole time to the work of the clinic. Local physicians, who give special attention to pediatrics, are in attendance at these clinics weekly. More than 12,000 children were examined at these three clinics, and over 8,000 home visits were made by the nurses in charge. Owing to the reduction in expenditures it was necessary to reduce the service of the Travelling Child Welfare Clinic. In 1932 this clinic visited 67 centres and examined 1,928 babies and children of pre-school age.

As in previous years, public health nurses continued to serve each of the following municipalities: Norma M.D. No. 15, with Vegreville as a centre; Marquis M.D. No. 157, with Milo as a centre; and Richdale M.D. No. 274, with Stanmore as a centre. In each of these districts a generalized public health nursing service is being rendered.

During the year district physicians provided service in three outlying districts, and district nurses in six outlying districts. The following districts were served: Fort Vermilion, Notikewin, Wanhams, Worsley, Valley View, Jarvie, Kinuso, Pendryl and Peers. These physicians and nurses are called on to exhibit a high degree of initiative, courage and skill in their work in pioneer communities, remote from hospital and medical service.

A detailed report of the work of the Public Health Nursing Division is submitted in the report of this division.

## SOCIAL HYGIENE

The work of this division has been very heavy during the year. As a result of economic conditions there has been a marked increase in the number of patients under treatment at the various clinics in recent years. Many patients, who had previously been under the care of private physicians, are now without the means to pay for such service, and seek treatment at the clinic.

The total number of cases of syphilis under treatment at all Provincial Clinics in 1932 was 879, and the total number of cases of gonorrhoea 1,056.

Continuing the work undertaken in 1931, special attention has been directed to the early detection of neurosyphilis and cardiovascular syphilis, the two types of the disease which cause the greatest economic loss through incapacitation and early death.

## THE PROVINCIAL LABORATORY

A review of the work of the Provincial Laboratory as submitted by the Provincial Bacteriologist, indicates that during the year 64,792 examinations were carried out, representing an increase of 7,574 examinations over 1931. The Provincial Laboratory is rendering a highly efficient service to local boards of health, hospitals and physicians, which is of prime importance in safeguarding the public health. The work of the Provincial Laboratory includes the examination of water, ice, sewage, milk; the examinations required in connection with communicable diseases, the examinations of pathological material submitted by hospitals, chicken and cattle blood examinations, medico-legal examinations, post-mortem examinations, and many other examinations too numerous to mention. In addition the Provincial Laboratory distributes all vaccines and sera used in the prevention and treatment of communicable disease for the Department.

Some idea of the value of this service is obtained when one considers the commercial value of the work done free of charge by the laboratory in 1932. If only minimum charges were made for the work, the total value of the service rendered in 1932 was \$144,960.20.

## SANITARY ENGINEERING AND SANITATION

All plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants, as required under The Public Health Act, were examined and, where approved, certificates have been issued for same. A statement of the works for which approval has been given will be found in the report of the Sanitary Engineering Division.

It is necessary to again emphasize the vital importance of municipalities taking the necessary steps to ensure the safety of public water supplies. As has been pointed out in another section of this report, untreated water drawn from running streams and irrigation ditches is unsafe, and municipal authorities should, in their own interests as well as in the interests of their citizens, make certain that such steps are taken as are necessary to provide safe water supplies. The same thing applies in the case of municipal milk supplies. No municipal authority can afford to permit the sale of impure milk to its citizens. Failure to properly supervise



and control milk supplies has been responsible for many serious milk-borne epidemics.

Two hundred and thirty-two districts were visited and inspected by the sanitary inspectors, and of these 135 were inspected a second time. Sixty-eight lumber, tie, sawmill and mining camps were inspected. There is a great need for more adequate service in this field as soon as financial conditions make this possible. Municipal authorities have taken full advantage of the inspectors' services, but owing to the very limited staff available it has been impossible to give sufficient time to follow-up work.

#### DENTAL HYGIENE

On account of the reduction in expenditures made necessary by the reduced budget, the Travelling Clinic was not operated in 1932. There has been a great demand for this service, more especially from the outlying districts. Dental service has been provided for the patients in all provincial institutions, as in previous years.

#### HOSPITAL INSPECTION

There are 89 approved hospitals in the Province in receipt of the Government grant. Seventy-four private hospitals were licensed under the provisions of The Private Hospitals Act, of which fifteen were baby shelters. All hospitals were inspected during the year, with the exception of some isolation hospitals, which were closed on the occasion of the hospital inspector's visit, and seven hospitals in outlying districts. The total number of operations reported in hospitals in 1932 was 21,657, and the number of deaths following operations 346, giving a mortality rate of 1.6%. An earnest effort has been made by the management and staffs of the hospitals to carry out the requirements of the hospital regulations. Economic conditions have been even more difficult for hospitals than in previous years. The problem of maintaining efficient hospital service under existing conditions has faced every board, and the hospitals deserve great credit for the manner in which they have carried on.

The total bed capacity of the approved hospitals, including the Central Alberta Sanatorium, is 4,481, divided as follows:

General .....	2,413	Infants .....	561
Maternity .....	630	Isolation .....	290
Children .....	295	Tuberculosis .....	292

This represents one bed for every 167 of the population, or 5.9 beds per 1,000 population; 66,592 patients were treated during the year, which number represents 8.8% of the population. The average stay in hospital was 13 days, but if Sanatorium, Isolation, Orthopaedic and S.C.R. cases were excluded, the average stay in hospital was 11.1 days.

The average cost per patient per day (excluding capital charges) for all approved hospitals was \$3.14, as compared with \$3.35, the average for 1931.

Statements giving detailed statistical information concerning the administration of approved hospitals will be found in the report of the Hospitals Division.

## MUNICIPAL HOSPITALS

The same number of municipal hospitals were in operation as in 1931, viz., 22. These 22 municipal hospitals provide accommodation for 733 patients (including babies), and 15,542 patients were treated during the year. A detailed statement of the operation of municipal hospitals will be found in the statistical report of the Hospitals Division.

Municipal hospital boards have been confronted with even more difficult conditions this year than in 1930 and 1931, but have met their difficulties courageously, and have endeavoured to give the best service possible with the funds available.

## CENTRAL ALBERTA SANATORIUM

The medical staff of the Sanatorium has provided the diagnostic service for the weekly tuberculosis clinics held at the Sanatorium and in Calgary, as well as for the Edmonton Clinic, which is held fortnightly. The annual tuberculosis survey was conducted at the Blood Indian Reserve, near Cardston, at which 276 patients were examined. For the purpose of conducting clinics, three visits were made by members of the Sanatorium staff to Lethbridge and two to Drumheller and Medicine Hat. A clinic was also held in High River in co-operation with the Okotoks-High River Full-time Health District.

The travelling diagnostician visited 47 other points in the Province for the purpose of conducting clinics. A total of 1,606 persons were examined at all clinics, and 127 new cases of tuberculosis were diagnosed. One does not need to stress the importance of such a service to the public health, but to make this service fully effective increased Sanatorium accommodation is urgently required.

## MENTAL HEALTH DIVISION

TABLE No. 2

## MOVEMENT OF PATIENTS—MENTAL INSTITUTIONS, 1932

	On Books Jan. 1, 1932		Admissions during 1932		Discharges during 1932		Deaths during 1932		On Books Dec. 31, 1932	
	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients
Oliver .....	304	12	118	6	9	0	6	1	407	17
Ponoka .....	1,157	38	472	27	406	9	61	0	1,162	56
Red Deer .....	0	190	0	25	0	18	0	7	0	190
Psychopathic Ward .....	10	0	115	5	107	6	2	0	15	0
Total.....	1,471	240	705	63	522	33	69	8	1,584	263

NOTE: Of the Ponoka discharges under "insane," 68 cases which were not psychotic are included, i.e., they came to Ponoka for malarial treatment, or were committed as drug addicts, observation cases, etc. The discharges from Ponoka also include 118 transfers to the Provincial Mental Institute, Oliver—116 insane and 2 mental defectives.

The 113 discharges from the Psychopathic Ward include 44 transfers to the Mental Institutions, Ponoka and Oliver. Only one transfer was that of a mental defective.

Of the 124 admissions to the Provincial Mental Institute, Oliver, 118 were on transfers from the Provincial Mental Hospital, Ponoka—116 insane and 2 mental defectives.



As indicated in the preceding table there was an increase of 135 in the patient population in Provincial institutions during the year. As the ratio of patients to population in Alberta is considerably below the average for Canada, and as the ratio tends to become relatively constant, a further increase in the number of patients applying for admission to the mental hospitals is to be expected.

The transfer of 118 male patients from the Provincial Mental Hospital at Ponoka to the Mental Institute at Oliver during the year materially relieved the situation in so far as accommodation for male patients at Ponoka is concerned. The increasing state of overcrowding in the women's wards at Ponoka is creating difficulties in administration. This problem has been given careful consideration with a view to a solution which will relieve the situation early in the new year.

The training school for mental defectives at Red Deer continues filled to the limit of its capacity, with a population of 190 patients, 74.9% of these being the low grade type of patients, who require a maximum of nursing care and supervision. The need for increased accommodation is urgent, both for the low grade type requiring custodial care and for the higher grade type, many of whom by proper methods of training could be rescued from becoming community liabilities, and made useful members of society.

With the transfer of 118 patients from the Mental Hospital at Ponoka to the Mental Institute at Oliver, and the admission of 6 new patients, the population of Oliver was increased to 424, the maximum capacity. These patients are practically all of the chronic type.

During the year 120 patients were admitted to the Psychopathic Ward, and in addition 18 patients were in residence for a day or two for observation and examination. The opening of the Psychopathic Ward has marked an important forward step, not only serving a most important function in making available modern methods of treatment for those suffering from certain psychiatric conditions, but also providing a centre for the observation of cases referred for examination by physicians and magistrates. One hundred and fifty-one consultations, exclusive of re-examinations, have been carried out by the director of this service, Dr. C. A. Baragar.

Occupational therapy has been stressed in all mental institutions, and an earnest effort has been made to develop this most important service to a key position in our institutions.

A review of the manifold activities of our mental institutions is contained in the reports submitted by the Commissioner and the Superintendents.

#### MENTAL HYGIENE CLINICS

The work of these clinics, established in Edmonton, Calgary and Lethbridge, has been conducted along the same lines as in previous years. To these clinics patients have come for examination, either voluntarily or referred by physicians, magistrates, welfare and other organizations. These clinics are serving a most useful purpose, and there is a great need for the extension of this service as soon as financial conditions will permit.

## THE EUGENICS BOARD

The work of this board is carried on under the authority of The Sexual Sterilization Act, which was assented to on March 21st, 1928.

During the year four meetings of the board were held, with sessions at each of the Provincial institutions, and also at Edmonton, Calgary and Lethbridge, as outlined in the report of the board included herewith.

During the year 63 cases (20 male and 43 female) were presented to and passed by the Board. This brings the number of cases which have been passed since the Board was constituted in 1929 to 197 (52 male and 145 female). During the year 48 operations (14 male and 34 female) were performed, bringing the total number of operations performed up to the end of 1932 to 156, of which 35 were male and 121 female. This work has gone forward most satisfactorily and without incident. The Board has discharged its responsibilities in a most careful and efficient manner. The need for such legislation as is in effect in Alberta is becoming more evident each year, both in our own country and abroad.

## GENERAL ADMINISTRATION

A statement of expenditures and revenue for the fiscal year ending March 31st, 1933, is included in this report. An analysis of this statement indicates that out of a total expenditure of \$1,365,692.40, approximately \$1,185,000.00 was expended for the maintenance and operation of Provincial institutions, for grants to approved hospitals and homes and other treatment services. Only approximately \$180,000.00, or 13% of the total funds, was expended for preventive public health activities. Expressed in another way, this means that out of every dollar expended by the Department in 1932, not more than 13 cents was spent on preventive measures. There is a great need for the expansion of preventive public health work, as has been stressed in other sections of this report, and it is to be sincerely hoped that improved economic conditions may soon make this possible.

All of which is respectfully submitted.

MALCOLM R. BOW, M.D., C.M., D.P.H.,  
*Deputy Minister of Public Health.*



## Communicable Disease Division

(A. C. McGUGAN, M.D., *Director*)

This Division is particularly concerned with the prevention of disease, and the usual educational work has been done throughout the year through the distribution of monthly bulletins to local boards of health and public lectures.

Assistance in the diagnosis of cases of suspected communicable diseases has been provided at the request of the attending physicians.

Where local situations, which required an epidemiological study have developed, this branch has co-operated with local health authorities in an attempt to locate the source of outbreaks of communicable diseases which threatened to reach serious proportions.

In addition to the work usually carried on by communicable disease divisions, Mr. Zalizniak, health inspector, has done a considerable amount of public health work in districts so remote from medical doctors that a public health service would be difficult to obtain. In these districts Mr. Zalizniak has vaccinated 2,525 persons against smallpox. He has immunized 2,903 children against diphtheria, 727 of whom were of pre-school age. During the year he has administered 8,709 doses of toxoid and has done reaction tests on 600 children. He has also lectured at twenty points to approximately 2,300 people.

In connection with the vital statistics work, Mr. Zalizniak has visited 64 local registrars and 93 cemetery caretakers.

TABLE No. 1  
COMMUNICABLE DISEASES AS REPORTED FOR 1931 AND 1932

	1931.	1932.		1931.	1932.
Acute Anterior Poliomyelitis	23	39	Mumps	481	652
Meningococcic Meningitis	6	2	Scarlet Fever	438	202
Chickenpox	2152	1594	Pulmonary Tuberculosis	325	259
Diphtheria	151	51	Smallpox	27	1
Encephalitis Lethargica	1	3	Typhoid Fever	43	52
Erysipelas	54	36	Paratyphoid Fever	2	6
Rubella	69	267	Whooping Cough	451	665
Measles	720	7382			

TABLE No. 2  
TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE  
OF ALBERTA DURING THE YEAR 1932 (INDIANS INCLUDED)

Pneumonia (all forms)	360	Diphtheria	10
Influenza (all forms)	297	Meningococcal Meningitis	8
Pulmonary Tuberculosis	313	Typhoid Fever	9
Tuberculosis (all other forms)	88	Mumps	—
Erysipelas	13	Poliomyelitis	14
Scarlet Fever	4	Smallpox	—
Encephalitis Lethargica	3	Measles	14
Whooping Cough	34		

TABLE No. 3  
DEATHS DUE TO COMMUNICABLE DISEASES IN THE CITIES OF EDMONTON  
AND CALGARY DURING 1932

EDMONTON			
Pneumonia (all forms)	48	Meningococcic Meningitis	1
Influenza (all forms)	47	Typhoid Fever	1
Pulmonary Tuberculosis	48	Erysipelas	4
Tuberculosis (all other forms)	20	Scarlet Fever	—
Diphtheria	1	Encephalitis Lethargica	—
Whooping Cough	—	Measles	4
Poliomyelitis	—	Smallpox	—
Mumps	—		

## CALGARY

Pneumonia (all forms) .....	48	Meningococcic Meningitis .....	2
Influenza (all forms) .....	40	Typhoid Fever .....	2
Pulmonary Tuberculosis .....	17	Erysipelas .....	5
Tuberculosis (all other forms) .....	8	Scarlet Fever .....	1
Diphtheria .....	—	Encephalitis Lethargica .....	1
Whooping Cough .....	4	Measles .....	4
Poliomyelitis .....	8	Smallpox .....	—
Mumps .....	—		

TABLE No. 4

## DEATHS DUE TO COMMUNICABLE DISEASES IN THE SMALLER CITIES, TOWNS, VILLAGES AND RURAL DISTRICTS DURING THE YEAR 1932

Pneumonia (all forms) .....	264	Meningococci Meningitis .....	5
Influenza (all forms) .....	210	Typhoid Fever .....	6
Pulmonary Tuberculosis .....	248	Erysipelas .....	4
Tuberculosis (all other forms) .....	60	Scarlet Fever .....	3
Diphtheria .....	9	Encephalitis Lethargica .....	2
Whooping Cough .....	30	Measles .....	6
Poliomyelitis .....	6	Smallpox .....	—
Mumps .....	—		

TABLE No. 5

## INDIAN DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA DURING 1932

Pneumonia (all forms) .....	20	Meningococcic Meningitis .....	—
Influenza (all forms) .....	21	Typhoid Fever .....	—
Pulmonary Tuberculosis .....	133	Erysipelas .....	1
Tuberculosis (all other forms) .....	30	Scarlet Fever .....	—
Diphtheria .....	—	Encephalitis Lethargica .....	—
Whooping Cough .....	25	Measles .....	4
Poliomyelitis .....	—	Smallpox .....	—
Mumps .....	—		

## TYPHOID FEVER

52 cases—9 deaths

Typhoid fever shows a slight increase for the year. Many of the cases which have occurred can be attributed to the use of untreated water from open streams. As long as raw water is used from open streams and irrigation ditches, we can expect little improvement in the morbidity and mortality rates in this disease. As the case fatality rate in typhoid fever is ten, it would appear that 90 cases should have been reported in Alberta in 1932. Apparently many cases have not been recognized. These constitute a menace, as probably a number have not been under the care of a physician, and have been released without any assurance that they are not carriers.

One carrier, careless in his habits, can infect many.

In districts in which typhoid fever is prevalent every individual should be vaccinated at least once every second year.

## SCARLET FEVER

202 cases—4 deaths

The total for scarlet fever in 1932 is 46% of the total for 1931. This disease continues to be mild in its course and serious in its complications. Some of the recognized cases appeared to be so mild that proper care in their management was neglected. Some cases have been so mild as to escape recognition. These mild cases and missed cases have been the chief factors in the spread of infection.

## SMALLPOX

1 case—0 deaths

The year 1932 was a record one in the history of smallpox in Alberta.



However, it is known that in many districts vaccination has been neglected, and it only requires the introduction of a case in these districts for the disease to become epidemic.

### DIPHTHERIA

51 *cases*—10 *deaths*

The total for diphtheria in 1932 is 33% of the total for 1931. When every susceptible individual in Alberta has been immunized against diphtheria, we may expect a record for diphtheria such as that of smallpox for the present year.

### MENINGOCOCCI MENINGITIS

2 *cases*—8 *deaths*

Either deaths from meningitis other than the meningococcic form have been reported as meningococcic or the reporting of meningococcal meningitis has been incomplete.

### PULMONARY TUBERCULOSIS

259 *cases*—313 *deaths*

The reporting of pulmonary tuberculosis is still far from complete.

### ACUTE ANTERIOR POLIOMYELITIS

39 *cases*—14 *deaths*

There were 16 more cases of poliomyelitis reported in 1932 than in 1931. In 1930 there was an unusually high morbidity rate from this disease, and the low incidence in 1931 was to be expected.

### MEASLES

7,382 *cases*—14 *deaths*

The morbidity curve for measles reached its peak in 1932. The experience of those centres in which convalescent measles serum has been used shows that the disease may be prevented, or its course controlled.

### WHOOPING COUGH

665 *cases*—34 *deaths*

Whooping cough is on the increase, and it is expected that 1933 will show an increase over 1932.

Early diagnosis is essential in the control of whooping cough, and if one waits for the characteristic "whoop" before he isolates patients and contacts, there is little chance of controlling the disease.

### MORBIDITY, MORTALITY AND CASE FATALITY RATES IN THE MORE COMMON COMMUNICABLE DISEASES

	Total cases	Total deaths	Morbidity rate	Mortality rate	Case Fatality rate
Acute Anterior Poliomyelitis .....	39	14	5.27	1.89	35.89
Cerebro-spinal Meningitis .....	2	8	0.27	1.08	.....
Pneumonia (all forms) .....	....	360	.....	48.64	.....
Influenza (all forms) .....	....	297	.....	40.13	.....
Pulmonary Tuberculosis .....	259	313	35.00	42.29	.....
Pulmonary Tuberculosis (exclusive of Indians) .....	....	180	.....	24.32	.....
Diphtheria .....	51	10	6.89	1.85	19.60
Whooping Cough .....	665	34	89.86	4.59	5.11
Smallpox .....	1	....	0.13	.....	.....
Typhoid Fever .....	52	9	7.03	1.21	17.30
Erysipelas .....	36	13	4.86	1.76	36.11
Scarlet Fever .....	202	4	27.29	0.54	1.98
Encephalitis Lethargica .....	3	3	0.40	0.40	100.00
Mumps .....	652	....	88.10	.....	.....
Measles .....	7382	14	997.57	1.89	1.18

WHOOPING COUGH

1932	Cities:	Sex		MONTHS												AGES						TOTAL		
		Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-69	Not Given
Calgary	116	143	—	3	20	20	20	31	27	24	33	31	30	20	19	88	151	1	—	—	—	—	—	259
Edmonton	133	173	4	2	—	18	23	21	15	59	49	25	45	45	29	156	115	3	3	—	—	—	—	306
Medicine Hat	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1
Towns and Villages	23	27	2	—	19	6	3	11	—	2	—	4	3	—	5	20	25	—	—	—	—	—	—	50
Rural Districts	20	29	3	3	2	7	5	—	—	4	9	10	5	1	—	18	30	—	—	—	—	—	1	49
Totals	293	372	9	8	41	51	51	64	42	89	91	70	83	66	53	283	321	4	3	—	—	—	1	665

TUBERCULOSIS

Cities:																							
Calgary .....	19	20	2	5	1	1	4	4	5	2	3	4	4	4	—	—	1	11	22	4	1	—	39
Drumheller .....	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	2
Edmonton .....	26	31	6	8	3	5	8	3	9	1	4	2	5	3	—	—	3	16	26	10	—	—	57
Lethbridge .....	1	3	—	—	—	—	2	1	—	1	—	—	—	—	—	—	—	2	—	—	—	—	4
Medicine Hat .....	4	3	—	—	—	—	—	—	—	1	—	—	—	—	—	—	3	3	1	—	—	—	7
Red Deer .....	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Wetaskiwin .....	1	2	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
Towns and Villages .....	38	34	6	6	6	7	5	7	6	3	6	6	9	5	1	—	5	17	36	11	1	2	72
Rural Districts .....	40	34	8	3	6	6	5	4	14	6	6	5	6	5	—	1	5	25	29	10	2	1	74
Totals.....	129	130	23	27	17	19	25	20	35	14	21	17	24	17	1	1	17	76	117	38	4	5	259

DIPHTHERIA

Cities:																							
Calgary .....	8	4	6	—	3	—	—	—	—	—	—	1	—	2	—	5	2	2	3	—	—	—	12
Edmonton .....	2	1	—	1	—	—	—	—	—	—	—	—	1	—	1	1	1	—	—	—	—	—	3
Medicine Hat .....	2	2	2	—	—	—	—	—	—	—	—	—	2	—	2	2	2	1	1	—	—	—	4
Red Deer .....	4	4	—	—	—	—	—	—	—	—	—	—	3	4	—	—	—	2	—	—	—	—	4
Towns and Villages .....	5	5	2	—	—	—	1	—	—	—	—	—	3	4	—	2	4	2	—	—	—	2	10
Rural Districts .....	10	8	3	1	2	1	—	3	—	2	1	1	1	3	1	4	9	3	1	—	—	—	18
Totals.....	31	20	13	2	5	1	2	3	—	2	1	2	7	13	2	14	18	10	5	—	—	2	51



## CHICKENPOX

1932	MONTHS													AGES						TOTAL			
	Sex																						
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44		45-59	60-69	Not Given
Cities:																							
Calgary .....	60	78	41	14	7	7	13	4	1	4	18	12	5	12	2	9	111	8	7	1	—	—	
Edmonton .....	429	430	70	45	31	18	26	40	44	18	54	252	186	75	40	205	560	44	8	2	—	—	
Lethbridge .....	9	3	1	3	—	—	—	—	—	1	—	—	6	1	1	1	11	—	—	—	—	—	
Medicine Hat .....	16	12	—	—	1	2	—	—	—	—	7	—	11	1	—	4	23	1	—	—	—	—	
Red Deer .....	32	28	9	3	19	22	3	4	—	—	—	—	—	—	1	7	33	17	1	—	—	1	
Wetaskiwin .....	6	1	—	—	—	—	2	5	—	—	—	—	—	—	—	1	6	—	—	—	—	—	
Towns and Villages .....	54	63	14	14	3	7	9	8	1	4	8	38	9	2	2	16	88	6	2	—	—	3	
Rural Districts .....	198	175	61	81	12	33	57	17	15	4	12	56	11	14	3	42	259	36	4	1	—	28	
Totals.....	804	790	196	160	73	89	110	78	61	31	99	364	228	105	48	285	1091	112	22	4	—	32	
							</																

## MUMPS

Cities:																							
Calgary .....	6	—	—	—	1	1	1	1	—	—	1	1	—	1	1	—	4	1	—	—	—	—	6
Edmonton .....	249	242	79	72	94	76	32	22	44	10	17	12	16	17	1	74	332	55	27	2	—	—	491
Towns and Villages .....	57	55	34	44	29	2	1	—	—	—	1	1	1	—	2	9	65	23	11	1	—	1	112
Rural Districts .....	24	19	5	3	1	18	10	2	1	1	1	1	—	—	—	4	15	11	8	—	2	3	43
Totals.....	336	316	118	119	125	97	44	24	45	11	20	15	16	18	4	87	416	90	46	3	2	4	652

## ANTERIOR POLIOMYELITIS

Cities:																							
Calgary .....	12	6	—	—	—	—	—	—	1	5	4	3	3	—	—	3	12	2	1	—	—	—	18
Lethbridge .....	1	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1
Towns and Villages .....	4	4	—	—	—	—	—	—	—	3	2	3	—	—	—	3	5	—	—	—	—	—	8
Rural Districts .....	7	5	1	—	—	—	—	3	2	3	—	3	—	—	—	2	9	—	—	—	—	1	12
Totals.....	24	15	1	—	—	—	—	4	4	12	6	9	3	—	—	8	26	2	1	—	—	2	39

## TYPHOID FEVER

[illegible]

## MEASLES

Cities:	1090	1001	13	73	132	218	1027	518	96	5	4	3	2	19	252	1745	59	16	—	—	2091
Calgary .....	6	7	1	6	1	1	—	2	1	1	—	—	—	1	5	5	1	1	—	—	13
Drumheller .....	1780	1874	3	67	185	823	1649	729	161	15	1	3	11	7	93	1147	2283	105	23	—	3654
Edmonton .....	230	238	—	1	1	2	4	85	53	69	110	102	21	20	2	67	370	8	3	1	468
Lethbridge .....	2	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—	—	—	18	2
Medicine Hat .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36
Red Deer .....	—	2	—	—	—	—	1	1	—	—	—	—	—	—	1	1	—	—	—	—	36
Wetaskiwin .....	22	14	—	—	—	2	21	11	—	1	—	—	—	1	2	6	28	—	—	—	478
Towns and Villages .....	222	256	4	25	17	6	32	187	85	20	18	73	9	2	12	102	327	19	8	—	638
Rural Districts .....	334	304	8	32	3	13	79	228	104	34	33	62	23	19	14	65	853	49	7	1	—
Totals.....	3686	3696	29	204	339	1065	2813	1762	500	146	166	243	66	49	143	1646	5113	241	58	3	7382

## GERMAN MEASLES

Cities:	94	115	14	49	74	43	18	10	1	—	—	—	—	—	7	189	11	2	—	—	209
Calgary .....	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Drumheller .....	2	1	1	1	1	—	—	—	—	—	—	—	—	—	1	2	—	—	—	—	3
Edmonton .....	9	19	3	11	1	1	1	5	1	3	—	—	—	—	4	3	5	2	—	—	28
Towns and Villages .....	12	14	—	1	5	5	3	—	—	2	—	—	—	5	3	16	3	1	—	—	26
Rural Districts .....																					
Totals.....	117	150	18	63	81	49	22	15	2	5	—	6	—	5	8	13	219	19	5	—	267



## SCARLET FEVER

1932	Sex		MONTHS												AGES						TOTAL		
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-69	Not Given
Cities:	24	20	8	7	10	5	1	1	1	1	3	2	4	1	—	7	27	6	4	—	—	—	44
Calgary .....	17	24	—	4	5	4	2	3	2	1	9	7	3	1	—	6	28	7	4	—	—	—	41
Edmonton .....	1	2	—	1	1	—	—	—	—	—	1	—	—	—	—	1	1	1	1	—	—	—	3
Lethbridge .....	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Medicine Hat .....	14	19	3	5	3	1	2	—	1	—	3	3	5	6	—	9	16	4	4	—	—	—	33
Towns and Villages .....	39	41	10	16	7	5	5	—	2	3	3	8	5	16	1	9	51	10	5	—	—	4	80
Rural Districts .....																							
Totals.....	95	107	21	33	26	15	9	6	6	5	19	20	17	25	2	32	118	28	18	—	—	4	202

## ERYSIPELAS

Cities:	4	8	2	—	1	1	—	1	—	—	—	1	—	1	1	—	—	—	3	2	—	—	7
Calgary .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	1	—	—	—	1
Drumheller .....	2	10	—	3	2	2	—	1	—	—	—	2	1	1	—	—	—	4	2	2	—	—	12
Edmonton .....	3	4	1	1	1	1	—	—	—	—	—	—	2	—	—	—	—	1	2	2	—	2	7
Towns and Villages .....	4	5	—	1	1	1	4	1	—	—	1	—	—	—	1	—	—	1	1	4	2	—	9
Rural Districts .....																							
Totals.....	14	22	3	5	5	5	4	4	—	—	1	3	3	3	4	—	—	6	8	10	2	6	36

## Public Health Education Division

(F. T. COOK, *Lecturer*)

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Health education has received the status of a well defined division in many departments of health, both on this continent and in Europe. This has been the aim of this department for some years, and each year brings us nearer to its realization.

By means of exhibits, lectures, pictures, radio talks, displays and correspondence, particular stress has been laid on the fundamentals such as sanitation, nutrition, mental hygiene and the observance of the well-known rules of hygiene.

During the year monthly bulletins were published by the Communicable Diseases Branch and distributed to local boards of health, and on request to other organizations. The subjects covered included: disease prevention, nutrition, vaccination, anterior poliomyelitis, typhoid fever, school hygiene, the responsibilities of local boards of health, and influenza.

Food exhibits were held at Edmonton Civic Block, Edmonton Annual Exhibition, Calgary City Hall, Calgary District Women's Institute Conference, Red Deer and High River. At these exhibits low cost adequate meals were demonstrated, and proved to be a popular and useful form of educational work.

Radio talks were given every second week over CKUA during the homemaker's hour programme, by members of the staff, assisted by Dr. C. W. Hurlburt, Dr. H. A. Gilchrist, Dr. R. B. Jenkins, Dr. L. C. Conn, Dr. R. T. Washburn, Dr. W. F. Gillespie, Dr. W. H. Scott and Dr. A. C. Rankin. The subjects of these talks included some aspects of the work of the mental hygiene clinics, how the citizen can assist in the campaign against tuberculosis, what you should know concerning mouth hygiene, the value of city health services to the citizen, how to guard the health of the school child, scarlet fever, some mental hygiene problems, taking care of the heart, etc.

The lecture service was maintained during the year, and meetings were held in most districts of the Province, with the exception of the Peace River country. Thirty meetings were held in a Ukrainian district, northeast of Edmonton. One hundred and sixty-seven meetings were held in 101 different places, at which there was an attendance of 28,992 people. Of these, 21,672 were of school age, 3,446 were men and 3,975 women.

Through the co-operation of school trustees and principals, as well as school medical and nursing staffs, in Calgary, Lethbridge and Drumheller, health talks illustrated by the use of moving pictures were given to 6,430 school children in the three cities. Requests for the extension of this service have been received from a number of school authorities.

It is interesting to note the continued demand for education on sex and social hygiene. Forty lectures, with moving pictures, were given on some phases of these subjects during the year.



# Hospital Inspection Branch and Medical Inspector's Report of Operations

(E. A. BRAITHWAITE, M.D., *Inspector of Hospitals*)

During the year I visited and inspected 81 of the approved hospitals in the Province. The total number of inspections was 92.

The total number of operations, taken from the weekly hospital operation reports, was 21,657, and the number of deaths following operations was 346.

The following is a list of operations performed and deaths which occurred in the approved, municipal and private hospitals during the year 1932.

	Approved H.	Deaths	Municipal H.	Deaths	Private H.	Deaths
GENERAL:						
Abscess .....	462	16	176	2	3	0
Adenectomy .....	5	0	1	0	0	0
Adhesions .....	160	4	17	0	1	0
Albee's Operation .....	0	0	0	0	0	0
Amputation .....	230	4	100	1	0	0
Anus .....	5	0	2	0	0	0
Appendectomy .....	3027	13	1038	18	22	1
Arthroclasia .....	0	0	0	0	0	0
Arthrotomy .....	1	0	0	0	0	0
Arthrodesis .....	5	0	0	0	0	0
Arthroplasty .....	9	0	0	0	0	0
Aspiration .....	53	1	2	0	0	0
Bladder .....	0	0	0	0	0	0
Bone Plating .....	3	0	0	0	0	0
Bone Graft .....	3	0	0	0	0	0
Bowel .....	43	3	6	1	0	0
Bronchoscopy .....	2	0	0	0	0	0
Bunioneectomy .....	2	0	0	0	0	0
Burns .....	1	0	0	0	0	0
Cancer .....	157	41	18	6	0	0
Carbuncle .....	10	0	8	0	0	0
Cauterization .....	20	0	6	0	0	0
Cecopexy .....	14	0	0	0	0	0
Cholecystectomy .....	329	19	55	2	1	0
Circumcision .....	271	0	72	0	6	0
Colopexy .....	5	0	0	0	0	0
Colostomy .....	16	7	1	0	0	0
Craniotomy .....	5	0	0	0	0	0
Curetting .....	71	0	6	0	0	0
Cystectomy .....	9	0	5	0	0	0
Cystocele .....	5	0	1	0	0	0
Cystoscopy .....	656	0	11	0	0	0
Cystotomy .....	63	8	2	0	0	0
Cyst .....	12	0	0	0	0	0
Decompresia .....	1	0	0	0	0	0
Dilatation .....	5	0	1	0	0	0
Dislocation .....	53	2	18	0	0	0
Enterectomy .....	1	4	1	0	0	0
Enterostomy .....	4	0	0	0	0	0
Epididymotomy .....	6	0	2	0	0	0
Evulsion Nail .....	1	0	0	0	0	0
Examination .....	26	0	35	0	0	0
Excision .....	148	4	43	0	0	0
Extraction Teeth .....	416	2	30	0	6	0
Fasciotomy .....	0	0	1	0	0	0
Fistula .....	62	0	5	0	0	0
Foreign Body .....	45	0	20	0	0	0
Fracture .....	632	3	178	1	2	0
Fulguration .....	20	0	39	0	0	0
Gastrectomy .....	2	0	0	0	0	0

	Approved H.	Deaths	Municipal H.	Deaths	Private H.	Deaths
Gastroenterostomy .....	83	9	5	0	0	0
Gastrostomy .....	1	1	0	0	0	0
Hammer Toe .....	5	0	2	0	0	0
Hare Lip .....	7	0	0	0	0	0
Hemorrhoidectomy .....	140	1	32	0	0	0
Herniorrhaphy .....	7	0	0	0	0	0
Herniotomy .....	451	6	111	3	3	0
Hydrocele .....	38	0	6	0	0	0
Iliocolostomy .....	11	2	0	0	0	0
Incision .....	286	5	64	2	2	1
Injection .....	59	0	3	0	0	0
Jejunostomy .....	18	4	0	0	0	0
Laminectomy .....	6	3	27	2	0	0
Laparotomy .....	118	24	60	7	3	0
Ligation .....	20	0	3	0	0	0
Lithotomy .....	8	1	0	0	0	0
Lobectomy .....	4	0	0	0	0	0
Manipulation .....	120	0	6	0	0	0
Necrosis .....	1	0	0	0	0	0
Nephrectomy .....	32	1	1	0	0	0
Nephrotomy .....	2	0	0	0	0	0
Neurectomy .....	1	0	0	0	0	0
Orchidectomy .....	18	0	3	1	0	0
Orchotomy .....	8	0	0	0	0	0
Osteomyelitis .....	52	0	8	0	0	0
Osteoplasty .....	1	0	0	0	0	0
Osteotomy .....	2	1	0	0	0	0
Peritonitis .....	7	0	1	0	0	0
Phlebectomy .....	1	0	0	0	0	0
Plaster Cast .....	101	0	22	0	0	0
Plastic .....	16	0	0	0	0	0
Pneumothorax .....	1	0	0	0	0	0
Polypi .....	3	0	0	0	0	0
Proctoscopy .....	18	0	0	0	0	0
Prostatectomy .....	68	9	9	0	0	0
Puncture .....	9	3	2	1	0	0
Pyloroplasty .....	11	0	0	0	0	0
Removal .....	489	5	77	1	1	0
Repair .....	172	6	80	0	0	0
Resection .....	134	5	12	2	0	0
Sequestrectomy .....	10	0	2	0	0	0
Sinus .....	4	0	0	0	1	0
Skin Graft .....	30	0	4	0	0	0
Splenectomy .....	0	0	0	0	0	0
Suturing .....	154	1	54	0	2	0
Sympathectomy .....	32	0	0	0	0	0
Synovectomy .....	1	0	0	0	0	0
Tenoplasty .....	10	0	0	0	0	0
Tenotomy .....	6	0	0	0	0	0
Thoracotomy .....	7	1	0	0	0	0
Thyroidectomy .....	201	6	15	1	1	0
Transfusion .....	155	3	14	0	0	0
Tumor .....	125	9	36	3	0	0
T.B. .....	52	6	2	0	0	0
Urethrotomy .....	3	0	0	0	0	0
Varicocele .....	16	0	0	0	0	0
Vasectomy .....	17	0	5	1	0	0
Venesection .....	1	1	0	0	0	0
Wounds .....	197	6	90	2	1	0

## OBSTETRICAL and GYNAECOLOGICAL:

Abortion .....	430	1	95	1	7	0
Adhesions .....	13	0	4	0	0	0
Cervix .....	93	0	14	0	0	0
Caesarean Section .....	40	2	4	1	0	0
Cauterization .....	42	0	4	0	0	0
Colporrhaphy .....	23	1	1	0	0	0
Colpotomy .....	7	0	0	0	0	0
Curetage .....	335	1	77	1	3	0
Cysts .....	6	0	0	0	0	0
Dilatation .....	143	1	55	0	0	0
Examination .....	67	0	21	0	0	0
Hysterectomy .....	174	12	19	5	2	0
Induction Labour .....	4	2	6	0	0	0
Insertion Radium .....	128	0	0	0	0	0
Oophorectomy .....	69	1	6	0	0	0
Ovariectomy .....	35	0	4	0	0	0
Ovariectomy .....	2	0	0	0	0	0
Panhysterectomy .....	28	0	0	0	0	0
Perineorrhaphy .....	82	0	10	0	0	0
Salpingectomy .....	184	0	32	1	1	0
Salpingo-oophorectomy .....	42	0	1	0	0	0
Sterilization .....	11	0	8	0	0	0
Supra pubic .....	5	0	2	0	0	0
Trachelorrhaphy .....	32	0	21	0	0	0
Uterus .....	101	0	33	0	0	0



	Approved H.	Deaths	Municipal H.	Deaths	Private H.	Deaths
EYE, EAR, NOSE, THROAT:						
Abscess .....	13	0	4	0	0	0
Adenoidectomy .....	24	0	20	0	0	0
Antrum .....	25	1	0	0	0	0
Cataract .....	73	0	4	0	0	0
Cautery .....	10	0	0	0	0	0
Cysts .....	2	0	1	0	0	0
Dacryocystectomy .....	12	0	0	0	0	0
Dilatation .....	3	0	0	0	0	0
Enucleation Eye .....	57	0	6	0	0	0
Esophagoscopy .....	1	0	0	0	0	0
Ethmoidectomy .....	1	0	0	0	0	0
Examination .....	8	0	0	0	0	0
Excision .....	10	0	1	0	0	0
Foreign Body .....	13	0	0	0	0	0
Glaucoma .....	5	0	0	0	0	0
Granulation .....	1	0	0	0	0	0
Iridectomy .....	48	0	0	0	0	0
Laryngoscopy .....	15	0	0	0	0	0
Mastoidectomy .....	64	3	7	0	0	0
Paracentesis .....	6	0	2	0	0	0
Polypi .....	9	0	0	0	0	0
Pterygium .....	9	0	0	0	0	0
Submucous Resection .....	61	0	3	0	0	0
Suturing .....	2	0	1	0	1	0
Synectomy .....	5	0	0	0	0	0
Tonsillectomy .....	2080	1	567	2	22	0
Tracheotomy .....	7	1	1	0	0	0
Turbineotomy .....	28	0	1	0	0	0
Tonsils and Adenoids .....	2034	0	487	0	41	0
Total number of operations in hospital .....					21,657	
Total number of deaths from operations .....					346	
Percentage .....					1.59	

## Private Hospitals Division

(MARY E. CONLIN, R.N., *Inspector*)

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Seventy-four private hospitals were licensed during the year 1932, 15 of which were licensed as baby shelters. One hundred and thirty-four inspections were made during the year, each baby shelter being visited every four months. In addition 4 institutions were visited in which babies are placed.

Where it has been possible in connection with the private hospital work in the districts I have visited, I have made an inspection of cases receiving free insulin through the Department of Health. During the year 1932, 67 inspections were made in the Province.



## Provincial Laboratory

(ALLAN C. RANKIN, C.M.G., M.D., D.P.H.,  
*Provincial Bacteriologist*)

During the time under consideration 64,792 examinations were carried out, an increase of 7,547. We have, as heretofore, received the co-operation of the various University departments, and the work done in the laboratory has been thus supplemented. A certain amount of routine biochemical work has passed through our hands, and been referred to the department of biochemistry. The chemical examinations of water and milk have been carried out by the provincial analyst.

The following table indicates the nature and number of examinations carried out:

TABLE No. 1

WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE YEAR 1932	
Post-mortem Examinations .....	124
Sputum .....	754
Diphtheria .....	1,268
Typhoid Fever .....	256
Milks .....	1,637
Waters .....	1,946
Miscellaneous Examinations .....	2,346
Mothers' Milk .....	14
Urinalysis .....	411
Medico-Legal Examinations .....	27
Bloods for the Wassermann Test .....	17,763
Smears for the Gonococcus .....	3,759
Icterus Index Determination .....	52
Van Den Berg Determination .....	4,432
Pathological Histological Material .....	6,641
Blood Smear Examinations .....	59
Cerebro-Spinal Fluid Examinations .....	1,136
Bacteriological Post-mortem Examinations.....	25
Chicken Blood Examinations .....	21,909
Cattle Blood Examinations .....	174
Typhoid Vaccine (25 c.c. quantity) .....	218
Autogenous Vaccine (25 c.c. quantity) .....	65
B.C.G. Vaccine (10 c.c. quantity) .....	169
Poliomyelitis Convalescent Serum .....	142
Ascheim Zondek .....	59
	<hr/>
	64,792
Increase in number of specimens examined .....	<hr/> 7,574

Table No. 2 shows the number of water and milk, special and blood containers prepared and distributed during the year:

TABLE No. 2

	1931	1932
Water Containers .....	1,329	1,326
Special Containers .....	1,392	1,469
Wassermann Containers .....	12,085	16,317
Chicken Blood Containers .....	16,427	21,909
	<hr/>	<hr/>
	31,233	42,021

Increase in preparation of 10,788 containers.

The following table shows the number of cubic centimeters of autogenous and other vaccines prepared and distributed during the year:

TABLE No. 3

	1931	1932
Typhoid Vaccine .....	1,010	5,450 c.c.
Autogenous Vaccine .....	1,975	1,625 c.c.
B.C.G. Vaccine .....	1,850	1,690 c.c.
Poliomyelitis Convalescent Serum .....	1,095	2,130 c.c.
	<hr/>	<hr/>
	5,930	10,895 c.c.

Increase in the preparation and distribution of 4,965 c.c.'s vaccines and serums.

Table No. 4 shows the detail of some of the work done by the laboratory in relation to the control of infectious diseases:

TABLE No. 4

Diseases	Posti- tive	Nega- tive	Physi- cians	Post Offices	Month.	Sputum.	Diphth.	Typhoid Fever.	Total.
					Jan. ....	54	107	14	175
					Feb. ....	60	209	11	280
					Mar. ....	51	112	14	177
Pulmonary					Apr. ....	69	81	41	191
Tuberculosis	115	639	.....	.....	May ....	73	53	23	149
Diphtheria ....	23	1,245	.....	.....	June ....	66	50	23	139
					July ....	45	42	13	100
Typhoid Fever	41	205	389	137	Aug. ....	63	60	27	150
					Sept. ....	58	67	30	155
					Oct. ....	59	65	18	142
					Nov. ....	76	165	21	262
					Dec. ....	80	257	11	348
						754	1,268	246	2,268

Table No. 5 shows the number of blood examinations by the complement fixation test for the diagnosis of syphilis.

TABLE No. 5

Bloods received .....	17,843
Bloods examined .....	17,763
Bloods positive .....	2,958
Bloods negative .....	14,805
Bloods unsuitable for examination .....	80
Bloods received from Calgary and south.....	5,278
Bloods received from north of Calgary.....	12,485
Number of blood examinations made in 1931.....	16,391
Number of blood examinations made in 1932.....	17,843
Increase in number of specimens examined.....	1,372
Increase in per cent. ....	8.3 %

Table No. 6 gives the details of the bacteriological and chemical examination of water performed throughout the year.

TABLE No. 6

Waters	1931	1932
Number of samples of water examined bacteriologically and found fit for human consumption .....	866	802
Number of samples of water examined bacteriologically and found unfit for human consumption .....	75	104
Number of samples of water examined bacteriologically and chemically and found fit for human consumption.....	778	762
Number of samples of water examined bacteriologically and chemically and found unfit for human consumption.....	135	142
Number of samples of water examined chemically and found fit for human consumption .....	49	57
Number of samples of water examined chemically and found unfit for human consumption .....	6	9
Number of samples of ice examined bacteriologically and found fit for human consumption .....	24	16
Number of samples of ice examined bacteriologically and found unfit for human consumption .....	1	....
Total.....	1,934	1,637

Table No. 7 gives the details of the bacteriological, bacteriological and chemical, and chemical examination of milk performed throughout the year.

TABLE No. 7

	1931	1932
Number of samples of milk examined bacteriologically .....	1,335	1,778
Number of samples of milk examined bacteriologically and chemically .....	165	159
Number of samples of milk examined chemically.....	5	9
Total.....	1,505	1,946
Number of samples of milk examined showing low butter fat content .....	24	15
Number of pasteurized milk samples examined bacteriologically with a bacterial count above 30,000 .....	30	86
Number of non-pasteurized milk samples examined bacteriologically with a bacterial count above 300,000 .....	23	29
Number of pasteurized milk samples examined .....	363	805
Number of non-pasteurized milk samples examined .....	1,142	1,141

*Pathological, Histological Material, etc.*

During the year under consideration 6,641 specimens were examined, an increase of 39. This work is carried out under the direction of Dr. J. J. Ower in the Department of Pathology, and represents a very heavy and valuable routine in operative material. The diagnostic work is also very considerable, and is of great value to the profession and public.

*Medico-Legal Examinations.*

This work has included various examinations pertaining to criminal and other cases in the Province throughout the year.

*Miscellaneous Examinations.*

There were 2,346 examinations during the year. These are of a very varied nature, and include the examination of food, body fluids, etc.

*Smears for the Gonococcus.*

There were 3,759 examinations made during the period covered by this report.

*Chicken Blood Examinations.*

There were 21,909 chicken blood examinations made for the diagnosis of bacillary white diarrhoea.

*Cattle Blood Examinations.*

There were 174 cattle bloods examined for the diagnosis of contagious abortion.

*Vaccines and Sera Prepared and Distributed.*

There were 8,765 cubic centimeters of vaccine prepared. This includes typhoid vaccine, autogenous vaccine, etc.; 2,130 cubic centimeters of poliomyelitis convalescent serum was prepared.

*Research Work.*

Research work has continued, and various publications were made.

ESTIMATION OF COMMERCIAL VALUE IF MINIMUM CHARGE WERE MADE			
Sputum .....	754	\$ 1.00	\$ 754.00
Diphtheria .....	1,268	1.00	1,268.00
Typhoid Fever .....	256	1.00	256.00
Milks .....	1,637	3.00	4,911.00
Waters .....	1,946	10.00	19,460.00
Mothers' Milk .....	14	2.00	28.00
Miscellaneous Examinations .....	2,346	3.00	7,038.00
Bloods for the Wassermann Test.....	17,763	3.50	62,170.50
Smears for Gonococcus .....	3,759	1.00	3,759.00
Icterus Index Determination .....	52	1.00	52.00
Van Den Bergh Determination .....	4,432	1.00	4,432.00
Pathological Histological Material .....	6,641	5.00	33,205.00
Blood Smear Examinations .....	59	2.00	118.00
Ascheim Zondek .....	59	5.00	295.00
Cerebro-Spinal Fluid Examinations .....	1,136	2.00	2,272.00
Bacteriological P.M. Examinations .....	25	5.00	125.00
Chicken Blood Examinations .....	21,909	.10	2,190.90
Cattle Blood Examinations .....	174	.20	34.80
Typhoid Vaccine (25 c.c. quantity).....	218	1.00	218.00
Autogenous Vaccine (25 c.c. quantity).....	65	10.00	650.00
B.C.G. Vaccine (10 c.c. quantity) .....	169	.....	.....
Poliomyelitis Convalescent Serum (15 c.c. quantity) .....	142	2.50	355.00
Urinalysis .....	411	3.00	1,233.00
Medico-Legal Examinations .....	27	5.00	135.00
	64,668		\$144,960.20
Increase in estimated value of work, \$8,941.13.			



## SERUMS AND VACCINES DISTRIBUTED DURING THE YEAR 1932

Smallpox—10 points .....	16,050 points
Diphtheria Antitoxin—	
1,000 units .....	728,000 units
20,000 units .....	2,040,000 units
Diphtheria Toxoid—	
1 person .....	1,681 persons
6 persons .....	2,064 persons
12 persons .....	6,384 persons
Schick Test—25 persons .....	2,825 persons
Scarlet Fever Toxin—	
1 person .....	418 persons
6 persons .....	750 persons
Dick Test—10 persons .....	850 persons
Tetanus Serum—	
5,000 units .....	20,000 units
1,500 units .....	61,500 units
10,000 units .....	20,000 units
Anti-Meningitis Serum—20 c.c. Vial .....	2,040 c.c.
Pertussis P.D. & Co.—	
5 c.c. ....	60 c.c.
20 c.c. ....	40 c.c.
Typhoid Vaccine .....	5,450 c.c.
Other Vaccines .....	1,625 c.c.
B.C.G. Vaccine .....	1,690 c.c.
Poliomyelitis .....	2,130 c.c.

## Public Health Nursing Division

(KATE S. BRIGHTY, R.N., *Superintendent*)

Each of the three public health nursing districts of Norma M.D. and the Town of Vegreville, Marquis M.D., and Richdale M.D. continue to be served by a public health nurse. The routine work in these districts embraces school inspection, child welfare clinics and home visits. In several instances the nurses have been able to refer cases to various organizations for advice and treatment. The local medical officers of health, the Canadian National Institute for the Blind, the Junior Red Cross Hospital and the dental profession have all been most co-operative in helping to provide attention in needy cases.

### STATISTICAL REPORT

First inspection .....	733	With defects .....	1479
Second inspection .....	1546	Without defects .....	773
Classroom inspection .....	30	Given whooping cough vaccine .....	6
Treatments .....	6	Vaccinations against smallpox .....	213
Not vaccinated .....	1144	Diphtheria toxoid treatments .....	826

### DEFECTIVE CONDITIONS SUSPECTED

Vision .....	382	Nasal .....	130
Hearing .....	32	Tonsils .....	51
Throat .....	458	Glands .....	103
Adenoids .....	34	Teeth .....	1004

### SYMPTOMS NOTED

Eye conditions .....	21	Nervous symptoms .....	10
Orthopaedic .....	3	Pediculosis .....	40
Posture .....	29	Skin conditions .....	19
Malnutrition .....	102	Impetigo .....	71
Mental symptoms .....	8	Communicable diseases .....	91

### RESULTS OBTAINED

Glasses fitted .....	27	Schoolroom talks .....	120
Glasses refitted .....	17	Home visits .....	245
Tonsils removed .....	40	Demonstrations .....	16
Adenoids removed .....	38	Interviews .....	123
Dental treatments .....	243	Child Welfare Clinics .....	72
Surgical treatments .....	1	Attendance, Child Welfare Clinics..	425
Medical treatments .....	19	Public lectures .....	16

### VISITING NURSE—ONE MUNICIPALITY

Home visits .....	276	Dental cases .....	16
Office consultations .....	215	Communicable diseases .....	21
Dressings and treatments .....	185	Vaccinations .....	4
Medical cases .....	175	Whooping cough vaccine .....	12
Surgical cases .....	42	Pre-natal visits .....	8
Taken to hospital .....	14	Child Welfare visits .....	35
Obstetrical cases taken to hospital	6	Child Welfare consultations .....	31
Eye cases .....	7	Deaths:	
Foreign body in eye .....	1	Under 1 year .....	0
Mental case .....	1	Over 1 year .....	1

### DISTRICT MEDICAL AND NURSING SERVICE

Eight districts are served, two by districts physicians and six by district nurses.

In the district of Peers on the Jasper Highway, the community has fully demonstrated its appreciation of the services of the district nurse by erecting a substantial modern cottage with attached office for the accommodation of the nurse.

## STATISTICAL REPORT

Home visits .....	2118	Pre-natal consultations .....	313
Office consultations .....	2175	Child Welfare visits .....	149
Dressings .....	1094	Child Welfare consultations .....	79
Medical cases .....	1619	Deaths under 1 year .....	16
Surgical cases .....	575	Deaths over 1 year .....	24
Obstetrical cases .....	178	Indigent cases sent to city .....	39
Abortions .....	26	Visits to Indian reserves .....	37
Pre-natal visits .....	175	Dental extractions .....	79

## CHILD WELFARE CLINICS

*Provincial Child Welfare Clinic, 604, Civic Block, Edmonton*

One hundred clinics were held during the year, with an average attendance of 57. Two hundred and one new cases were enrolled in the pre-natal list, 119 cases discharged, leaving 44 cases on the roll.

## STATISTICAL REPORT

Clinics held .....	100	Babies transferred to pre-school....	189
Babies in attendance .....	4556	Babies discharged .....	772
Pre-school children in attendance....	1111	Pre-school children discharged....	312
Total attendance .....	5667	Babies referred to Family Physician	64
Weighing clinics .....	51	Pre-school children referred to	
Attendance .....	410	Family Physician .....	38
Babies on roll .....	1797	Out-of-town cases .....	66
Pre-school children on the roll .....	953	Deaths: Under 1 year .....	7
Babies admitted (new cases) .....	787	In second year .....	4
Babies re-admitted .....	6	Pre-school children .....	4
Pre-school children admitted .....	157	Home visits .....	4639
Pre-school children re-admitted ....	45		

## DEFECTS FOUND

	Babies.	Pre-school.		Babies.	Pre-school.
Vision .....	28	13	Skin conditions .....	281	44
Hearing .....	20	4	Mental conditions .....	7	5
Nasal .....	5	6	Malnutrition .....	18	6
Throat .....	23	187	Miscellaneous .....	376	69
Oral .....	35	35			

*Provincial Child Welfare Clinic, New Police Building, Calgary*

Clinics were held in three rooms in the Health Department offices, the clinic being open two afternoons a week with a doctor and two nurses in attendance, and three afternoons a week with nurses only in attendance.

The staff consists of 1 doctor and 2 nurses.

The Mental Hygiene Clinic is held in the clinic rooms fortnightly, the Child Welfare nurse assisting in the work of this clinic.

## STATISTICAL REPORT

Clinics held .....	103	Babies admitted .....	466
Babies in attendance .....	3721	Babies re-admitted .....	11
Pre-school children .....	1656	Pre-school children admitted .....	179
Total attendance .....	5377	Pre-school children re-admitted....	58
Babies on the roll .....	790	Babies transferred to pre-school....	562
Pre-school children .....	1206	Babies discharged .....	171
Home visits .....	2380	Pre-school children discharged....	635
Babies examined by doctor .....	1905	Diphtheria toxoid treatments .....	161
Pre-school children examined by		Vaccinations .....	124
doctor .....	574	Deaths .....	11

## DEFECTS FOUND

	Babies.	Pre-school.		Babies.	Pre-school.
Vision .....	16	49	Skin conditions .....	20	31
Hearing .....	23	25	Mental conditions .....	0	2
Nasal .....	0	12	Malnutrition .....	7	17
Throat .....	27	176	Miscellaneous .....	127	80
Oral .....	6	328			
Dental Clinic .....	320		Number pre-natal letters sent .....	44	
Eye, Ear, Nose and Throat Clinic....	894		Attendance from out of town .....	53	

*Provincial Child Welfare Clinic, Court House, Medicine Hat*

The usual baby clinics were held in Medicine Hat, with follow-up work. In Redcliff 2 baby clinics a month were held, with the exception of the months of January and February.



In addition to conducting these clinics, the Provincial nurse assisted in the organization of chest clinics under the direction of Dr. G. R. Davison of the Central Alberta Sanatorium. In Redcliff, 238 school children were inspected. As a result, quite a number had their eyes tested and were fitted with glasses. Some had tonsil and adenoid operations. Two malnutrition cases were supplied with milk by the Red Cross, and soon showed marked improvement. Four cases were recommended to report at the chest clinic for examination; 2 cases were negative and the findings were indefinite in the other 2. They are under observation, and have been advised to report at the next chest clinic. Nine cases were recommended for medical examination.

Nursing services were rendered at the venereal disease clinic once a week. During the summer months the attendance was small, but has increased considerably.

#### STATISTICAL REPORT

Clinics held .....	115	Pre-school children re-admitted ....	4
Babies in attendance .....	1513	Pre-school children discharged .....	109
Pre-school children .....	358	Babies transferred to pre-school....	136
Total attendance .....	1871	Babies referred to Family Physician	36
Babies on roll .....	392	Pre-school children referred to	
Pre-school children on roll .....	417	Family Physician .....	11
Home visits .....	1420	Pre-natal cases admitted .....	11
Babies admitted .....	151	On roll .....	4
Babies discharged .....	4	Deaths (over 2 years) .....	1
Pre-school children admitted .....	25		

#### DEFECTS FOUND

	Babies.	Pre-school.		Babies.	Pre-school.
Vision .....	18	2	Skin conditions .....	82	3
Hearing .....	6	0	Malnutrition .....	32	6
Throat .....	9	70	Miscellaneous .....	151	25
Oral .....	8	79			

#### TRAVELLING CHILD WELFARE CLINICS

Due to the policy of economy, a reduction was made in this service as compared with previous years. The Travelling Child Welfare Clinic served 67 centres this year, at which 1,928 infants and pre-school children were examined.

#### DEMONSTRATION OF FOOD AT LOW COST

Responding to a much-felt need in both rural districts and urban centres, a bulletin was prepared entitled "Food at Low Cost," and demonstrations of the meals outlined in the bulletin were arranged at a number of points.

The cooking and serving of these meals proved an interesting feature in connection with public health exhibits shown in Edmonton, Calgary, Red Deer and High River during the winter, and again at the Edmonton Exhibition in the summer.

#### PRE-NATAL AND POST-NATAL LETTERS

These letters published by the Canadian Council on Child and Family Welfare continue to increase in popularity among the women of Alberta; 471 sets of pre-natal letters and 853 sets of post-natal letters were mailed during the year.

The office is becoming a bureau of information to the women of the Province seeking advice on maternal and child hygiene.

Thirteen centres, at which nurses are stationed, were visited during the year, and 14 public addresses given.

Three of the staff nurses took post-graduate work during the year.

Miss Marion Lavell, P.H.N., received a Rockefeller Foundation Travel Grant, and was absent from the Province six weeks visiting child hygiene centres in Toronto, New York and Chicago.

Mrs. Jessie Hyde took a post-graduate course in obstetrical nursing in Chicago.

Miss Amy Conroy attended a class at the University of Alberta for one month studying mental hygiene and child behaviour.

A public health nurse was in charge of the first aid tent at the Edmonton Exhibition, as in previous years.

## Hospitals Division

(W. B. MILNE, C.A., *Secretary of the Department*)

On the 31st of December, 1932, there were 89 approved hospitals in the Province.

The Spirit River Community Hospital was opened as an approved hospital during the year.

The total grants to hospitals and homes for the year 1932 amounted to \$424,744.50.

These hospitals, with the addition of the Central Alberta Sanatorium, had a total bed capacity of 4,481, divided as follows: General, 2,413; maternity, 630; infants, 561; paediatrics, 295; isolation, 290; tuberculosis, 292.

For a population of 741,000, there was one hospital bed for every 167.61 of the population, or 5.9 beds per thousand population; 66,592 patients were treated during the year, receiving 866,700 days' treatment. This means that in the year 1932 hospital treatment was provided for 8.86% of the population, or one in every 11.11 persons.

The average number of patients admitted daily was 182.7. The average number of days spent in hospital by each patient was 13, and if the Isolation, Sanatorium, Orthopaedic, S.C.R. and T.B. cases in the University Hospital were eliminated, this would be reduced to an average of 11.3. The average number of patients in hospital daily was 2,371.8, or one in every 316.6 of our population. Each bed provided accommodation for an average of 14.8 patients during the year.

The nursing staff of these approved hospitals, excluding the Central Alberta Sanatorium, consisted of 454 graduate nurses, 672 pupil nurses, and 184 other attendants.

There were 13 nurses' training schools in the Province, and the number of nurses who were graduated during the year was 231. Twenty-six dietitians were employed.

During the year 8,595 maternity cases were cared for, these cases comprising 12% of the total admitted cases. Living births were: male 4,223, female 3,985, a total of 8,208. Multiple births totalled 89, and there were 275 stillborn. The maternal deaths reported were 24, this giving a death rate of .27% of total maternity cases admitted, and 2.98 per thousand living births.

The living births in Alberta for the year 1932 were 16,924. It is interesting to note that of this total 48.5% took place in Government approved hospitals.

In the hospitals reporting, 20,188 general anaesthetics were administered, and 5 deaths occurred from these.

Two hundred and forty-six autopsies were performed. The infections developed in hospitals totalled 129, divided into: medical 19, surgical 81, obstetrical 29.

The number of communicable disease cases treated, excluding typhoid fever and tuberculosis, totalled 732. Typhoid cases numbered 77, tuberculosis 1,025 (pulmonary 749, other forms 276).



Amongst other cases treated in hospital there were 1,337 cardiac, 622 rheumatic, 356 goitre, 566 venereal, 796 malignant.

There were 280 deaths within ten days of surgical operations, and 423 within forty-eight hours after admission. Communicable diseases accounted for 51 deaths.

The approved hospitals reported 111,834 laboratory examinations and 23,106 X-ray examinations.

The total operating expenditure of approved hospitals for 1932 was \$2,485,592.11. This included administration of \$236,678.56, operating \$2,012,457.42, and maintenance \$236,456.13. The expenditure classed as capital is mostly repayments of principal and interest on capital borrowings.

Earnings of these hospitals amounted to \$3,252,887.36. On referring to the details of the earnings it will be noted that there is a slight difference in the totals shown as paid by Government grant and the amount stated previously in this report. This is accounted for by the fact that homes have not been included, and quite a number of the hospitals presented financial statements covering a fiscal year, which differs considerably from a calendar year.

Of the earnings shown, \$419,283.50 was Alberta Government grant. Municipal and other grants, which include amounts paid by municipalities to take care of deficits, amounted to \$323,565.58. Patients' fees earned amounted to \$1,914,015.16, donations amounted to \$229,352.84, taxes for municipal hospital purposes amounted to \$292,120.24, and sundry earnings amounted to \$74,550.04.

The average cost per patient per day was \$3.14. Excluding Isolation, Junior Red Cross, Sanatorium, University Hospital and hospitals operating incurable wards, the average cost was \$3.04. The average earnings per patient day was \$4.18. The average cost was divided as follows: administration 7.89%, operating 82.9%, maintenance 9.2%.

The statistical information given in this report has been obtained from financial and statistical returns obtained from each hospital for the year 1932, and again it must be pointed out that each of them still experience difficulty in compiling the forms supplied, although such form is now in its fourth year of operation.

The following statements are submitted, giving the details in connection with each hospital in the Province:

No. 1—Bed capacity, number of patients, number of days, nursing staff, etc.

No. 2—Nursing statistics, cases treated, anaesthetics, autopsies, etc.

No. 3—Expenses of administration, operating, maintenance and capital repayments.

No. 4—Hospital revenues.

No. 5—Costs per patient per day, earnings per patient per day, and percentage of administration, operating and maintenance.

#### MUNICIPAL HOSPITALS

There has been no change in the number of municipal hospitals since 1931, there being 22 in operation at December 31st, 1932.

This does not include the sub-hospital at Craigmyle, as it is considered part of the hospital facilities of the Hanna district.

Statistics of the municipal hospitals will be found with the other approved hospitals of the Province.

No. 1—STATISTICS OF ALBERTA HOSPITALS, 1932

Name of Hospital	Bed Capacity						Patients Admitted for Treatment					Nursing Staff			Nurses graduated during year	Affiliation with other hospitals for nurses	Dietitians				
	General	Maternity	Infants	Paediatrics	Isolation	Tuberculosis	Total	Private	Semi-Private	Public	Bassinets	Male		Female				Number of days hospital stay in	Aver. No. of patients in hospital daily	Nurses training school	
												Graduates	Pupil nurses							Other attendants	
Athabasca, Municipal	19	7	7	3	2	...	38	...	33	31	7	280	330	6,868	11.3	18.8	5	2	No	...	1
Banff, Mineral Springs	55	6	3	...	...	...	64	25	33	3	3	125	162	3,302	11.5	9.0	5	2	No	...	11 mo. only
Barhead, St. Elizabeth	5	3	3	1	...	...	12	...	3	4	3	126	161	2,301	8.0	6.3	2	2	No	...	...
Bassano, Municipal	13	6	6	2	4	...	31	12	8	5	6	164	264	5,290	12.4	14.5	5	2	No	...	...
Bentley, Community	7	...	3	...	...	...	11	...	3	5	3	107	146	1,610	6.4	4.4	2	2	No	...	...
Bentley, W. I.	2	4	2	...	...	2	10	2	6	...	2	49	83	1,552	11.8	8.7	2	2	No	...	...
Bonnyville, K. H. Prettie	23	6	6	...	5	...	17	2	...	9	6	93	143	3,190	13.5	8.3	3	2	No	...	...
Bonnyville, St. Louis	23	7	5	...	...	...	40	6	...	22	5	91	161	3,775	15.0	10.3	3	2	No	...	...
Calgary, General	158	23	24	9	...	...	214	26	54	110	24	2,451	3,092	64,137	11.6	175.7	13	94	6	Yes	36
Calgary, Isolation	...	...	...	...	70	...	70	...	...	70	...	52	24	1,588	20.9	4.4	3	1	...	...	...
Calgary, Smallpox	...	...	...	...	10	...	10	...	...	10	...	150	472	7,467	...	...	6	...	...	...	...
Calgary, S. A. Grace	35	18	...	...	3	...	56	2	6	30	18	1,279	1,538	35,296	12.4	20.5	6	...	...	...	...
Calgary, Holy Cross	228	25	27	10	...	...	300	49	62	162	27	89	66	14,870	95.9	40.7	18	73	5	Yes	38
Calgary, Junior Red Cross	...	...	...	47	3	...	50	...	...	50	...	...	...	...	...	...	6	...	...	...	...
Calgary, Central Alberta Sanatorium	...	...	...	...	...	210	210	...	...	...	...	210	192	74,541	185.4	204.2	9	...	...	...	...
Camrose, St. Mary's	29	11	10	4	...	...	54	16	28	...	10	280	359	7,020	11.0	19.2	9	16	1	Yes	5
Cardston, Municipal	14	6	10	...	...	...	30	...	...	20	10	315	464	5,273	6.8	14.4	5	...	...	...	...
Castor, Rosary	23	7	...	...	...	...	30	17	6	...	7	174	226	3,937	9.8	10.8	5	...	...	...	...
Cereal, General	8	...	4	...	...	...	12	...	...	...	4	48	107	1,548	10.0	4.2	2	...	...	...	...
Clareholm, General	16	...	...	...	...	...	16	...	...	16	...	167	203	2,981	8.1	8.2	4	...	...	...	...
Cold Lake, John Neil	7	5	3	...	2	...	13	...	...	16	3	104	152	1,762	6.9	4.8	3	...	...	...	...
Coleman, Miners' Union	13	...	...	...	...	...	13	...	...	13	...	86	63	2,029	13.6	5.6	3	...	...	...	...
Consort, Municipal	10	5	...	...	1	...	16	2	2	12	...	165	407	5,097	8.9	14.0	4	...	...	...	...
Coronation, General	18	4	1	...	...	...	23	6	4	14	1	114	149	2,797	10.6	7.7	3	...	...	...	...
Daysland, Providence	25	5	4	...	...	...	34	4	26	...	4	98	123	2,524	11.4	6.9	6	...	...	...	...
Desmarais, St. Martin's	14	...	...	...	...	2	16	2	8	...	6	91	123	2,977	13.9	8.2	1	...	...	...	...
Didsbury, General	7	4	6	...	...	...	17	...	...	11	6	100	190	2,205	7.6	6.0	3	...	...	...	...
Drumheller, Municipal	57	15	15	5	2	2	96	18	38	25	15	1,052	975	21,146	10.4	57.9	7	20	17	...	...
Edmonton, Beulah Home	30	6	42	...	6	...	84	...	6	36	42	72	205	5,051	18.2	13.8	2	...	...	...	...
Edmonton, General	101	18	18	32	6	...	175	24	16	117	25	1,363	1,846	38,441	12.0	105.3	16	80	4	Yes	26
Edmonton, Misericordia	100	32	25	10	6	...	175	33	46	71	18	1,262	2,183	41,108	11.9	112.6	10	65	2	Yes	21
Edmonton, S. A. Grace	35	14	...	...	...	...	49	3	6	26	14	94	241	4,529	13.5	12.4	3	...	...	...	...
Edmonton, Royal Alexandra	222	50	50	60	...	18	400	50	50	250	50	3,286	4,564	101,228	12.9	277.3	29	119	10	Yes	43
Edmonton, Isolation	...	...	...	...	100	...	100	...	...	100	...	225	192	9,156	22.0	25.8	6	...	...	...	...
Edmonton, University (Civilian)	...	...	...	45	...	20	365	12	30	323	...	1,668	1,130	52,093	18.6	243.1	39	84	19	Yes	23
Edmonton, University (S.C.R.)	300	...	...	...	...	...	...	...	...	...	...	609	3	21,810	35.6	...	...	...	...	...	Yes
Edmonton, University (Orthopaedic)	...	...	...	...	...	...	...	...	...	...	...	45	42	11,145	128.1	...	...	...	...	...	...
Edmonton, University (Tuberculosis)	...	...	...	...	...	...	...	...	...	...	...	40	17	3,689	64.7	...	...	...	...	...	...

Edson, St. John's .....	28	5	5	...	1	...	39	4	8	22	5	261	257	6,629	12.8	18.2	6	9	No	.....
Elk Point, Municipal .....	7	6	5	...	1	...	21	1	2	13	5	356	494	8,236	9.7	22.6	4	3	No	.....
Empress, Cottage .....	12	4	...	...	1	...	17	...	17	...	...	187	2,556	8.0	7.0	3	1	No	.....	
Fairview, W. I. ....	5	3	3	...	...	...	11	...	8	...	3	108	146	1,972	7.8	5.4	2	2	.....	.....
Ft. Vermilion, St. Theresa .....	15	1	...	...	...	...	16	6	10	(Hospital with records destroyed, Oct., 1932)	...	...	...	...	...	...	...	...	.....	
Galahad, St. Joseph's .....	13	4	4	2	1	...	24	5	9	6	4	119	200	2,768	8.7	7.6	4	2	1	.....
Gleichen, General .....	26	5	1	1	...	...	8	2	2	3	1	12	17	231	8.0	.6	1	1	.....	.....
Grande Prairie, Municipal .....	26	5	12	4	1	...	50	4	...	34	12	423	381	10,404	12.9	28.5	9	4	.....	.....
Grouard, St. Joseph's .....	18	...	...	...	2	...	22	4	18	...	...	80	95	3,676	21.0	10.1	1	1	.....	.....
Hanna, Municipal .....	32	10	10	8	2	...	64	26	20	8	10	473	637	11,644	10.5	31.9	9	1	.....	.....
Hanna, Craigmyle Sub-hospital .....	3	3	3	1	...	...	10	...	...	7	3	68	95	1,607	9.9	4.4	2	1	.....	.....
Hardisty, St. Anne's .....	19	1	4	...	...	...	24	4	4	12	4	214	223	3,372	7.7	9.2	3	1	.....	.....
High Prairie, Community .....	3	2	2	...	...	...	7	2	3	2	2	28	21	598	12.2	1.6	1	1	.....	.....
High River, Municipal .....	26	12	7	4	...	...	49	4	38	...	7	285	463	7,406	9.9	20.3	5	4	Yes	6
Innisfail, Municipal .....	28	8	2	...	...	...	38	...	...	36	2	296	480	8,938	11.5	24.5	5	2	.....	.....
Islay, Municipal .....	8	4	4	2	...	...	18	...	...	14	4	241	385	4,649	8.1	12.7	3	1	.....	.....
Jasper, Seton .....	14	3	5	1	...	...	23	4	5	9	5	130	70	2,827	14.1	7.7	3	1	.....	.....
Killam, General .....	5	2	4	1	...	...	12	2	2	4	4	39	54	663	7.1	1.8	2	...	.....	.....
Lacombe, General .....	9	4	4	...	...	...	17	5	4	4	4	180	266	3,584	8.0	9.8	4	1	.....	.....
Lamont, Public .....	39	10	10	6	...	...	5	...	...	12	10	656	777	18,299	12.8	50.1	3	...	Yes	12
Lethbridge, Galt .....	66	20	16	6	...	...	112	29	14	53	16	1,028	1,278	24,257	10.5	66.5	11	36	Yes	9
Lethbridge, Isolation .....	...	...	...	...	14	...	14	...	...	14	...	748	1,048	14,955	8.3	41.0	18	6	.....	.....
Lethbridge, St. Michael's .....	58	28	21	12	...	...	121	32	16	52	21	435	629	13,286	12.5	36.4	9	3	.....	.....
Lloydminster, Municipal .....	28	10	10	...	2	...	50	...	...	40	10	92	139	2,394	10.4	6.6	4	3	.....	.....
Macleod, General .....	9	6	6	...	2	...	23	1	2	14	6	92	139	2,394	10.4	6.6	4	3	.....	.....
Mannville, Municipal .....	5	5	5	...	...	...	15	...	10	...	5	132	200	3,203	9.6	8.8	3	...	.....	.....
Medicine Hat, General .....	102	21	...	...	...	...	4	127	16	11	100	1,026	1,333	24,276	10.3	66.5	6	39	Yes	7
Medicine Hat, Isolation .....	...	...	...	...	14	...	14	...	...	14	...	...	36	12.0	.1	1	...	...	.....	.....
Mundare, General .....	13	6	6	1	2	...	30	4	6	14	6	197	250	3,762	8.4	10.8	3	2	.....	.....
McLennan, Sacred Heart .....	12	4	5	1	...	...	22	4	...	13	5	195	244	4,887	11.1	13.4	4	2	.....	.....
Nanton, General .....	5	3	1	...	1	...	11	3	2	6	1	42	41	927	11.2	2.5	3	2	.....	.....
Nordegg, General .....	8	4	...	...	...	...	12	4	...	8	...	67	31	921	9.4	2.5	1	3	.....	.....
Olds, General .....	6	4	4	...	...	...	10	3	7	...	...	155	180	2,287	6.7	6.1	3	...	.....	.....
Onoway, Municipal .....	4	4	4	...	...	...	12	3	2	3	4	67	130	1,832	9.6	5.2	2	...	.....	.....
Peace River, Municipal .....	9	5	4	...	1	...	19	3	2	12	4	184	262	5,970	13.4	16.4	4	...	.....	.....
Pincher Creek, St. Vincent's .....	9	7	3	...	...	...	19	6	4	6	3	78	102	2,345	13.0	6.4	3	...	.....	.....
Provost, Municipal .....	14	6	2	...	...	...	22	...	...	20	2	215	311	6,532	12.4	17.9	4	2	.....	.....
Radway, St. Joseph's .....	11	4	4	3	...	...	23	3	2	14	4	195	280	3,566	7.5	9.8	3	2	.....	.....
Red Deer, Municipal .....	29	6	5	...	...	...	40	4	16	15	5	283	373	5,840	8.9	16.0	5	1	.....	.....
Rimbey, St. Paul's .....	7	3	7	1	...	...	1	19	2	2	8	7	101	134	1,986	8.5	5.4	4	1	.....
St. Paul, St. Theresa .....	18	6	8	2	6	...	5	4	28	8	...	243	343	6,218	10.6	17.0	6	5	Yes	1
Smoky Lake, Geo. McDougall .....	14	...	6	...	...	...	20	4	...	10	6	174	365	4,028	7.5	11.0	4	...	.....	.....
Spirit River, Community .....	...	...	...	...	...	...	6	...	2	4	...	25	43	350	5.1	1.0	1	2	.....	.....
Stettler, Municipal .....	16	8	10	...	...	...	34	4	...	20	10	310	453	6,631	8.8	18.3	7	...	.....	.....
Trochu, St. Mary's .....	12	7	4	2	...	...	25	7	8	6	4	95	138	3,038	13.0	8.3	2	3	.....	.....
Vegreville, General .....	23	6	6	3	2	...	40	7	12	15	6	424	566	8,822	8.9	24.2	4	12	Yes	5
Vegreville, R. M. Boswell .....	13	5	4	...	...	...	22	3	3	12	4	146	247	3,095	7.9	8.5	3	4	No	...
Vermilion, Municipal .....	12	8	8	...	...	...	28	...	...	20	8	267	458	7,482	10.3	20.5	4	2	.....	.....



No. 1—STATISTICS OF ALBERTA HOSPITALS, 1932—Continued

Name of Hospital	Bed Capacity								Patients Admitted for Treatment					Nursing Staff			Nurses graduated during year	Affiliation with other hospitals for nurses	Dietitian
	General	Maternity	Infants	Paediatrics	Isolation	Tuberculosis	Total	Private	Semi-Private	Public	Bassinets	Male	Female	Number of hospital days	Aver. days stay in hospital	Aver. No. of patients in hospital daily	Graduates	Pupil nurses	Other attendants
Viking, Municipal .....	7	7	...	...	...	...	14	...	...	14	...	177	290	4,436	9.5	12.2	4	...	...
Vilna, Our Lady's .....	7	4	4	3	1	...	19	4	4	7	4	178	121	1,999	10.0	5.5	2	...	1
Vulcan, Municipal .....	14	6	6	...	...	...	26	...	...	20	6	172	293	4,908	10.6	13.4	5	...	...
Wainwright, Municipal .....	18	4	...	...	...	...	22	...	...	20	...	235	287	4,955	9.5	13.6	4	...	...
Wayne, General .....	7	4	3	...	2	...	16	2	4	7	3	209	140	3,323	9.5	9.1	3	...	1
Westlock, Immaculata .....	24	6	...	...	...	...	30	5	6	19	...	210	225	3,523	8.1	9.7	4	...	1
Wetaskiwin, Community .....	11	4	5	2	...	...	22	5	...	12	5	373	413	4,929	6.3	13.5	6	...	...
(New building opened Nov. 15th, 1932).	2413	630	561	295	290	292	4481	566	771	2374	561	29,214	37,378	866,700	13.0	2371.8	454	672	184
Excluding Isolation, Sanatorium, Orthopaedic, S.C.R., and T.B. cases in University Hospital .....	...	...	...	...	...	...	586	...	...	...	...	1,280	546	137,094	...	...	...	...	...
	...	...	...	...	...	...	3895	...	...	...	...	27,934	36,832	729,606	11.3	1993.9	...	...	...

The image shows the front cover of a book. The main part of the cover is a dark, textured material, possibly cloth or leatherette, in a deep charcoal or black color. On the left side, there is a vertical strip of a lighter, cream-colored material, likely paper or a different type of cloth, which appears to be the spine or a half-binding detail. The texture of the dark material is slightly grainy. The lighting is even, highlighting the different materials and the vertical seam where they meet.









## No. 4—REVENUE OF ALBERTA HOSPITALS, 1932

Name of Hospital	Grants		Patients' Fees	Donations, Cash and Services	Tax Requisitions	Sundry Earnings and Excess Tax	Total Earnings
	Alberta Government	Municipal and others					
Athabasca, Municipal	\$ 3,434.00	.....	\$ 9,493.39	\$ 1,033.49	\$ 9,227.61	\$ 232.76	\$ 22,387.76
Banff, Mineral Springs	1,651.00	.....	13,777.86	.....	.....	258.50	16,720.85
Barrhead, St. Elizabeth	1,150.50	.....	5,766.75	.....	.....	.....	6,917.25
Bassano, Municipal	2,614.00	.....	8,707.05	.....	8,425.00	2,934.93	22,680.98
Bentley, Community	805.00	.....	5,132.25	138.59	.....	.....	6,075.84
Berwyn, W. I.	776.00	\$ 1,658.34	3,292.70	65.75	.....	.....	5,792.79
Bonnyville, K. H. Prettie	1,595.00	.....	4,386.00	8,889.38	.....	142.92	15,163.90
Bonnyville, St. Louis	1,798.50	.....	5,867.50	2,228.68	.....	.....	9,394.68
Calgary, General	32,068.50	*94,344.29	177,555.84	.....	.....	2,076.27	306,044.90
Calgary, Isolation	794.00	*26,826.30	202.55	.....	.....	.....	15,163.90
Calgary, St. A. Grace	8,733.50	750.00	5,805.38	1,157.95	.....	.....	11,446.83
Calgary, Holy Cross	17,609.00	4,000.00	129,388.09	23,646.00	.....	.....	175,093.09
Calgary, Junior Red Cross	13,540.50	.....	.....	4,163.89	.....	.....	17,704.39
Camrose, St. Mary's	3,510.00	.....	.....	.....	.....	.....	25,733.76
Cardston, Municipal	2,636.50	.....	6,952.11	.....	13,100.65	886.18	23,575.44
Castor, Rosary	1,988.50	.....	9,288.94	3,167.55	.....	3,116.81	17,541.80
Cereal, General	774.00	.....	4,358.48	.....	.....	.....	5,132.48
Clareholm, General	1,490.00	550.00	8,659.18	.....	.....	.....	10,699.18
Cold Lake, John Neil	831.00	1,269.00	850.32	5,951.35	.....	.....	8,951.67
Coleman, Miners' Union	1,014.50	.....	749.17	6,886.68	.....	.....	8,650.35
Consort, Municipal	2,548.50	.....	7,333.75	19.50	6,604.65	123.40	16,629.80
Coronation, General	1,398.50	.....	7,697.50	312.00	.....	.....	9,408.00
Daysland, Providence	1,262.00	.....	6,325.65	.....	.....	8,404.10	15,991.75
Didsbury, General	1,102.50	2,400.00	6,266.22	.....	37,520.00	1,773.03	9,768.50
Drumheller, Municipal	10,573.00	.....	38,276.22	.....	.....	.....	88,142.25
Edmonton, Beulah Home	3,025.50	800.00	4,889.28	3,545.19	.....	.....	12,259.97
Edmonton, General	19,081.50	7,650.00	74,350.04	47,800.00	.....	.....	148,881.54
Edmonton, Misericordia	20,554.00	5,950.00	120,203.80	27,870.85	.....	4,860.07	179,438.72
Edmonton, S. A. Grace	2,264.50	.....	3,561.80	2,266.71	.....	.....	8,093.01
Edmonton, Royal Alexandra	50,614.00	*73,268.27	282,544.70	.....	.....	6,361.10	412,788.07
Edmonton, Isolation	4,578.00	*33,670.16	20,629.55	.....	.....	.....	58,877.71
Edmonton, University	*68,212.50	*32,988.00	300,638.75	.....	.....	.....	401,839.25
Edson, St. John's	3,314.50	6,324.00	14,244.48	3,947.00	.....	.....	27,829.98
Elk Point, Municipal	4,086.50	.....	1,025.86	.....	11,443.30	367.50	26,152.16
Empress, Cottage	1,278.00	.....	7,254.79	901.73	.....	60.49	9,495.01
Fairview, W. I.	986.00	1,270.00	4,754.75	.....	.....	20.45	7,031.20
Galahad, St. Joseph's	1,384.00	.....	7,584.49	2,929.15	.....	.....	11,897.64
Grande Prairie, Municipal	5,202.00	.....	22,568.70	105.65	25,870.76	1,401.54	55,148.65
Grouard, St. Joseph's	407.50	5,175.32	1,687.40	2,000.00	.....	.....	9,270.22



## No. 4—REVENUE OF ALBERTA HOSPITALS, 1932—Continued

Name of Hospital	Grants		Patients' Fees	Donations, Cash and Services	Tax Requisitions	Sundry Earnings and Excess Tax	Total Earnings
	Alberta Government	Municipal and others					
Hanna, Municipal .....	\$ 5,822.00	.....	\$ 18,113.61	.....	\$ 29,217.00	\$ 2,899.59	\$ 58,813.20
Hanna, Craignyle Sub. ....	803.50	.....	2,157.50	.....	.....	.....	14,285.20
Hardisty, St. Anne's .....	1,886.00	.....	8,590.00	4,009.20	.....	.....	1,643.85
High Prairie, Community .....	299.00	64.85	1,280.00	.....	.....	.....	36,440.36
High River, Municipal .....	3,703.00	.....	10,095.15	.....	21,105.40	1,536.81	32,009.18
Innisfail, Municipal .....	4,469.00	.....	11,042.55	.....	15,230.00	1,267.63	17,280.50
Islay, Municipal .....	2,824.50	.....	4,814.00	.....	10,130.00	12.00	16,704.56
Jasper, Seton .....	1,413.50	\$ 2,500.00	9,511.56	3,279.50	.....	.....	8,059.09
Killam, General .....	331.50	.....	1,240.50	1,395.15	.....	.....	13,207.91
Lacombe, General .....	1,792.00	.....	11,300.46	.....	.....	1,831.25	72,349.06
Lamont, Public .....	9,149.50	.....	50,518.31	10,750.00	.....	1,406.71	88,259.39
Lethbridge, Galt .....	12,128.50	6,000.00	61,745.75	1,978.43	.....	.....	3,617.31
Lethbridge, Isolation .....	129.50	2,926.81	561.00	.....	.....	1,164.70	66,435.15
Lethbridge, St. Michael's .....	7,477.50	846.59	53,887.21	3,059.15	.....	.....	36,676.49
Lloydminster, Municipal .....	3,548.00	2,793.00	29,136.50	1,198.99	*	.....	19,285.67
Macleod, General .....	1,197.00	.....	5,246.67	.....	.....	*12,842.00	14,495.85
Mannville, Municipal .....	1,601.50	6,000.00	2,918.35	.....	9,886.00	90.00	83,818.86
Medicine Hat, General .....	12,138.00	.....	60,399.39	4,885.47	.....	396.00	15,350.07
Mundare, General .....	1,881.00	.....	7,793.52	4,315.96	.....	1,359.59	19,509.75
McLennan, Sacred Heart .....	2,412.50	.....	9,427.25	4,773.50	.....	2,896.50	3,825.00
Nanton, General .....	463.50	.....	3,361.50	.....	.....	5,562.10	8,568.60
Nordegg, General .....	460.50	.....	2,546.00	.....	.....	8,659.21	10,058.75
Olds, General .....	1,118.00	.....	7,469.00	50.00	.....	22.21	26,762.81
Onoway, Municipal .....	941.00	.....	1,042.75	.....	8,075.00	941.55	10,959.85
Peace River, Municipal .....	2,970.00	.....	11,068.07	10.00	11,764.19	.....	26,001.45
Pincher Creek, St. Vincent's .....	1,172.50	300.00	7,812.50	1,674.85	13,964.00	400.00	12,813.05
Provost, Municipal .....	3,266.00	.....	8,371.45	.....	.....	625.18	21,718.37
Radway, St. Joseph's .....	1,783.00	.....	6,162.57	4,242.30	.....	2,074.03	5,972.86
Red Deer, Municipal .....	2,920.00	.....	15,294.21	50.00	1,380.13	.....	24,193.13
Rimbey, St. Paul's .....	993.00	.....	4,979.86	.....	.....	121.12	11,083.35
St. Paul, St. Theresa .....	2,680.00	.....	13,966.26	7,475.75	.....	449.10	31,083.27
Smoky Lake, Geo. McDougall .....	2,014.00	.....	3,850.25	4,750.00	16,351.96	888.19	12,690.50
Stettler, Municipal .....	3,340.50	.....	10,502.62	.....	.....	.....	31,618.45
Trochu, St. Mary's .....	1,469.00	150.00	6,410.00	4,661.50	.....	.....	9,101.39
Tregeville, General .....	4,411.00	.....	20,668.25	6,539.20	.....	.....	23,798.48
Vegreville, R. M. Boswell .....	1,547.50	855.50	2,797.39	3,888.00	11,585.00	13.00	17,505.33
Vermilion, Municipal .....	3,741.00	.....	7,749.70	.....	8,573.00	240.65	9,263.52
Viking, Municipal .....	2,218.00	.....	6,473.68	.....	.....	.....	.....
Vilna, Our Lady's .....	974.50	600.00	6,432.23	1,256.79	.....	.....	.....

Vulean, Municipal .....	2,454.00	.....	7,184.50	.....	13,096.59	616.90	23,351.99
Wainwright, Municipal .....	2,477.50	.....	9,190.85	.....	9,570.00	606.65	21,845.00
Wayne, General .....	1,661.50	.....	3,155.25	.....	.....	.....	4,816.75
Westlock, Immaculata .....	1,761.50	600.00	9,288.20	2,594.26	.....	146.20	14,385.16
Wetaskiwin, Community .....	2,463.00	1,100.00	14,869.96	3,422.30	.....	290.16	22,145.42
(New building opened Nov. 15th, 1932)							
	\$419,283.50	\$323,565.58	\$1,914,015.16	\$229,352.84	\$292,120.24	\$ 74,550.04	\$3,252,887.36

## \*MUNICIPAL GRANTS:

Calgary, General, is amount charged to Mill Rate.

Calgary, Isolation, is amount charged to Mill Rate.

## Edmonton, Royal Alexandra:

1. City funds to make up deficit.....
2. Contribution to sinking fund .....
3. Interest paid on debentures .....

\$73,268.27  
25,178.82  
62,299.06

\$160,746.15

## Edmonton, Isolation:

1. City funds to make up deficit.....
2. Contribution to sinking fund .....
3. Interest paid on debentures .....

\$33,670.16  
4,838.81  
8,800.00

47,308.97

## Edmonton, University:

- City of Edmonton .....
- University of Alberta .....

\$11,738.00  
21,250.00

32,988.00

## \*ALBERTA GOVERNMENT GRANT:

## Edmonton, University:

- General Grant .....
- Special Grant .....

\$48,212.50  
20,000.00

68,212.50

## \*Sundry Earnings:

Macleod General, includes revenue from incurable ward.

## \*Tax Requisitions:

Lloydminster, Municipal (Alberta Board) .....

\$13,000.00

## No. 5—COSTS OF ALBERTA HOSPITALS, 1932—Continued

Name of Hospital	Per Patient per day		Percentage of cost			Earnings, including grants and contri- butions from Municipalities per patient per day
	Exclusive of Capital and Reserves	Capital	Adminis- tration	Operating	Maintenance	
Athabasca, Municipal .....	\$ 2.32		11.1	80.5	8.4	\$ 3.26
Banff, Mineral Springs .....	3.82	\$ 2.66	5.2	81.9	12.9	5.06
Barrhead, St. Elizabeth .....	2.43		1.3	68.6	30.1	3.01
Bassano, Municipal .....	3.37		10.1	84.6	5.3	4.29
Bentley, Community .....	2.54		5.4	87.4	7.2	3.77
Berwyn, W. I. ....	2.78		6.4	92.0	1.6	3.73
Bonnyville, K. H. Prettie .....	2.81		3.6	86.9	9.5	4.76
Bonnyville, St. Louis .....	2.86		4.6	65.9	29.5	2.49
Calgary, General .....	3.33	.19	10.5	76.8	12.7	4.77
Calgary, Isolation .....	14.73	2.72	23.9	64.5	11.6	17.52
Calgary, S. A. Grace .....	1.60		7.8	82.1	10.1	1.53
Calgary, Holy Cross .....	4.01	.84	7.5	77.5	15.0	4.96
Calgary, Junior Red Cross .....	1.32	.10	3.2	93.3	3.5	1.19
Camrose, St. Mary's .....	2.87	.99	12.7	82.6	4.7	3.67
Cardston, Municipal .....	3.55		7.2	87.7	5.1	4.47
Castor, Rosary .....	3.20	.09	5.4	81.3	13.3	4.46
Cereal, General .....	2.99		2.0	92.0	6.0	3.32
Claresholm, General .....	3.02		2.0	86.1	11.9	3.59
Cold Lake, John Neil .....	4.60		20.0	73.9	6.1	5.08
Coleman, Miners' Union .....	4.22		6.1	90.2	3.7	4.32
Consort, Municipal .....	2.25		9.2	82.8	8.0	3.26
Coronation, General .....	2.82		6.6	92.0	1.4	3.36
Daysland, Providence .....	1.51	.29	4.4	86.6	9.0	1.75
Didsbury, General .....	4.10		7.4	87.7	4.9	4.43
Drumheller, Municipal .....	2.73	.34	9.8	86.1	4.1	4.17
Edmonton, Beulah Home .....	2.60		8.9	80.6	10.5	2.43
Edmonton, General .....	4.10	.27	5.8	79.7	14.5	3.87
Edmonton, Misericordia .....	3.11	.32	11.4	71.5	17.1	4.36
Edmonton, S. A. Grace .....	1.55		10.9	78.6	10.5	1.79
Edmonton, Royal Alexandra .....	3.11		12.0	78.6	9.4	4.08
Edmonton, Isolation .....	5.05		20.0	75.8	4.2	6.43
Edmonton, University .....	3.70		8.7	86.2	5.1	4.53
Edson, St. John's .....	2.82	.69	3.4	86.7	9.9	4.20
Elk Point, Municipal .....	1.82	.45	10.1	84.6	5.3	3.18
Empress, Cottage .....	3.05		11.8	81.4	6.8	3.71
Fairview, W. I. ....	2.76		.9	88.1	11.0	3.57
Galahad, St. Joseph's .....	3.16	.33	5.6	75.3	19.1	4.30
Grouse Prairie, Municipal .....	3.05	.66	11.8	82.0	6.2	5.30
Grouard, St. Joseph's .....	1.73		8.7	74.7	16.6	2.52
Hanna, Municipal .....	3.20	.81	14.4	76.5	9.1	4.44
Hanna, Craigmyle-Sub. ....	2.87					
Hardisty, St. Anne's .....	2.80	1.12	9.9	88.0	2.1	4.24
High Prairie, Community .....	2.08		1.4	86.4	12.2	2.75
High River, Municipal .....	3.23	.70	10.2	83.0	6.8	4.92
Innisfail, Municipal .....	2.26	.69	12.9	80.1	7.0	3.58
Islay, Municipal .....	3.23	.03	8.0	79.9	12.1	3.72
Jasper, Seton .....	3.48	1.20	7.9	79.4	12.7	5.91
Killam, General .....	4.56		3.0	87.1	9.9	4.61
Lacombe, General .....	2.46		5.6	90.5	3.9	3.69
Lamont, Public .....	2.87		15.3	73.1	11.6	3.95
Lethbridge, Galt .....	2.92		9.5	84.6	5.9	3.43
Lethbridge, Isolation .....	9.35	3.48	4.5	92.5	3.0	13.97
Lethbridge, St. Michael's .....	2.74	1.62	7.8	89.1	3.1	4.44
Lloydminster, Municipal .....	2.33		8.8	85.2	6.0	2.76
Macleod, General .....	1.38	.11	6.5	80.7	12.8	1.48
Mannville, Municipal .....	3.14	.49	9.5	85.1	5.4	4.53
Medicine Hat, General .....	2.21		10.7	84.1	5.2	3.45
Mundare, General .....	2.39	.62	9.7	86.1	4.2	4.08
McLennan, Sacred Heart .....	3.62		2.8	75.6	21.6	3.99
Nanton, General .....	4.11		3.6	95.3	1.1	4.13
Nordeg, General .....	7.30		.8	80.9	18.3	9.30
Olds, General .....	3.08		9.9	86.7	3.4	3.87
Onoway, Municipal .....	3.48		13.1	79.5	7.4	5.34
Peace River, Municipal .....	2.52	.53	13.3	81.1	5.6	4.48
Pincher Creek, St. Vincent's .....	2.66		2.6	80.0	17.4	4.67
Provost, Municipal .....	2.78	.55	9.1	80.9	10.0	3.98
Radway, St. Joseph's .....	2.30	.53	2.9	84.0	13.1	3.59
Red Deer, Municipal .....	2.70	.55	10.3	82.3	7.4	3.72
Rimbey, St. Paul's .....	3.35	1.17	7.7	81.0	11.3	3.01
St. Paul, St. Theresa .....	3.24	.77	2.0	85.5	12.5	3.55
Smoky Lake, Geo. McDougall .....	2.37	.52	1.8	92.2	6.0	2.74
Stettler, Municipal .....	2.91	.58	13.8	76.5	9.7	4.65



## No. 5—COSTS OF ALBERTA HOSPITALS, 1932

Name of Hospital	Per Patient per day		Percentage of cost			Earnings, including grants and contri- butions from Municipalities per patient per day
	Exclusive of Capital and Reserves	Capital	Adminis- tration	Operating	Maintenance	
Trochu, St. Mary's .....	\$3.12	\$ .29	7.3	79.0	13.7	\$ 4.18
Vegreville, General .....	2.47	.....	2.6	88.4	9.0	3.58
Vegreville, R. M. Boswell .....	2.93	.....	1.8	82.9	15.3	2.94
Vermilion, Municipal .....	2.33	.56	9.8	80.9	9.3	3.18
Viking, Municipal .....	2.78	.58	9.9	87.2	2.9	3.95
Vilna, Our Lady's .....	3.92	.10	5.2	83.9	10.9	4.63
Vulcan, Municipal .....	3.00	1.07	9.8	89.1	1.1	4.76
Wainwright, Municipal .....	2.49	.66	10.9	84.1	5.0	4.41
Wayne, General .....	2.45	.15	8.3	87.4	4.3	1.45
Westlock, Immaculata .....	3.21	1.03	4.3	85.6	10.1	4.08
Westaskiwin, Community .....	3.00	.....	5.0	83.3	11.7	4.49
(New building opened Nov. 15, 1932).						
	\$3.14	.....	7.89	82.91	9.2	\$ 4.18
Eliminating Isolation, Junior Red Cross, Sanatorium, University and Hospitals operating incurable wards .....	\$3.04	.....	.....	.....	.....	.....

## Division of Social Hygiene

(HAROLD ORR, O.B.E., M.D., D.P.H., *Director*)

There were no changes during the year either in our methods of treatment or prevention of venereal diseases, except such slight modifications as were necessary on account of the curtailment of our expenditure.

The work of the Department has been particularly heavy during the year. Owing to economic conditions we have had, during the past two years, a large increase in the number of patients seeking treatment, patients previously under the care of private physicians.

We are continuing to direct particular attention to the early detection of neurosyphilis and cardiovascular syphilis, the two types of syphilis which cause the greatest economic loss from incapacitation and early death.

The following figures briefly indicate the work done in the various clinics during the year:

### EDMONTON CLINIC, 9912 103rd Avenue

Number of Patients .....	608
Sexes of Patients: Male.....	452
Female .....	156

#### CLASSIFICATION OF THEIR DISEASES

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	237	215	.....	452
Female .....	108	48	.....	156
Totals.....	345	263	.....	608

Number and results of Wassermann tests: 2,939 tests, of which 649 were positive.

Number and results of cerebrospinal fluid tests: 154 tests, of which 29 were positive.

### CALGARY CLINIC, City Hall Annex, New Police Building

Number of Patients .....	879
Sexes of Patients: Male.....	652
Female .....	227

#### CLASSIFICATION OF THEIR DISEASES

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	225	427	.....	652
Female .....	121	106	.....	227
Totals.....	346	533	.....	879

Number and results of Wassermann tests: 2,367 tests, of which 626 were positive.

Number and results of cerebrospinal fluid tests: 56 tests, of which 16 were positive.

### MEDICINE HAT CLINIC, General Hospital

Number of Patients .....	38
Sexes of Patients: Male.....	27
Female .....	11

#### CLASSIFICATION OF THEIR DISEASES

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	8	14	5	27
Female .....	7	2	2	11
Totals.....	15	16	7	38

Number and results of Wassermann tests: 102 tests, of which 51 were positive.

Number and results of cerebrospinal fluid tests: None.

### LETHBRIDGE CLINIC, Galt Hospital

Number of Patients .....	76
Sexes of Patients: Male.....	70
Female .....	6

## CLASSIFICATION OF THEIR DISEASES

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	29	40	1	70
Female .....	5	1	.....	6
Totals.....	34	41	1	76

Number and results of Wassermann tests: 182 tests, of which 50 were positive.

Number and results of cerebrospinal fluid tests: 9 tests, of which 2 were positive.

## LETHBRIDGE GAOL, Lethbridge

Number of Patients .....	72
Sex of Patients: Male .....	72

## CLASSIFICATION OF THEIR DISEASES

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	30	42	.....	72

Number and results of Wassermann tests: 527 tests, of which 96 were positive.

Number and results of cerebrospinal fluid tests: 8 tests, of which 2 were positive.

## FORT SASKATCHEWAN GAOL, Fort Saskatchewan

Number of Patients .....	270
Sexes of Patients: Male.....	193
Female .....	77

## CLASSIFICATION OF THEIR DISEASES

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	69	124	.....	193
Female .....	40	37	.....	77
Totals.....	109	161	.....	270

Number and results of Wassermann tests: 1,490 tests, of which 205 were positive.

## CASES REPORTED BY DOCTORS IN THE PROVINCE

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	21	72	.....	93
Female .....	12	10	.....	22
Totals.....	33	82	.....	115

## RECAPITULATION

	Syphilis.	Gonorrhoea.	Chancroid.	Totals.
Male .....	619	934	6	1,559
Female .....	293	204	2	499
Totals.....	912	1,138	8	2,058

TOTAL: 2,058.

## Sanitary Engineering Division

(R. B. OWENS, B.A., B.E., *Provincial Sanitary Engineer*)

The following is a detailed list of works for which Provincial Board of Health Certificates have been issued, together with the estimated cost of each:

### WATERWORKS

Coronation—Provisional Certificate No. 375/32, replacements to water mains. Estimated cost .....	
Coronation—Final Certificate No. 376/32, replacement to water mains. Estimated cost .....	\$ 8,962.00

### SEWERAGE

Calgary—Certificate No. 370/32, sewer extensions, Bylaw No. 2814. Estimated cost .....	2,700.00
Edmonton—Certificate No. 371/32, additions and alterations to No. 1 Sewage Disposal Plant. Estimated cost.....	85,000.00
Calgary—Certificate No. 372/32, sewer extensions. Estimated cost .....	5,164.78
Calgary—Certificate No. 373/32, Sewage Disposal System (4th and final unit). Estimated cost .....	50,000.00
Lethbridge—Certificate No. 374/32, storm sewer extension. Estimated cost .....	8,584.00

Plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants as required under Sections 10, 11, 12, 13, 14 and 15 of The Public Health Act were duly examined, and where approval was given certificates were issued.

Plans and specifications other than those aforesaid, but required by the Provincial Board of Health, were also examined, and the necessary action taken thereon.

Plans, specifications and proposals in connection with the sanitary engineering works submitted to the Public Utilities Commissioner were also examined and advice given.

Plans and specifications in connection with the sanitary engineering works connected with hospitals under The Hospitals Act and Municipal Hospitals Act were examined, and advice given thereon.

Sanitary engineering works in connection with the institutions under the administration of the Public Works Department were visited and advice given where necessary.

Private sewage disposal systems in connection with schools, etc., were examined, and advice given as to maintenance and operation.

During the year reports on the analyses of water and ice were examined and, where necessary, action in the matter of prohibiting the use of the supply was taken, or an investigation made for the purpose of advising as to a remedy.



Under the sanitation section of the Sanitary Engineering Branch of the Department, the following work was carried out by our three inspectors (one full-time, two part time) :

Two hundred and sixty-six health districts were visited and inspected. Of this number 135 were inspected a second time, and 2 a third time.

Sixty-eight lumber, tie, sawmill and mining camps were visited and inspected.

One hundred and sixty-seven notices to abate nuisances were issued.

Seventeen prosecutions were carried out and convictions obtained in each case, fines varying from \$5.00 to \$20.00 being imposed in addition to costs.

Seven new nuisance grounds were located and approved.

Thirty-eight requests for services of inspector were received and attended to.

One hundred and seventy-eight pounds of foodstuffs were seized and destroyed as unfit for food for human consumption.

The services of the inspectors have been used in investigations of outbreaks of infectious and contagious disease.

Of the three inspectors, one is on full-time. One inspector devotes part of his time to dealing with office routine with respect to the system of supervision of purchasing adopted by the Department at the end of the year 1927. Two-thirds of the time of the other inspector is spent in the two full-time health districts.

Typical plans dealing with sewage disposal, heating and ventilation have been prepared, printed and distributed. These are available to those who request information on these subjects.

The Health and Occupational Therapy Exhibit was again held during the Edmonton Exhibition. The Baby Welfare Clinic at the Exhibition has been discontinued.

The Public Health Regulations are being revised.

## Dental Hygiene Division

(A. E. HEACOCK, L.D.S., D.D.S.)

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The various institutions under the Department received dental service throughout the year.

At the Central Alberta Sanatorium patients are being admitted at all times. As oral conditions have considerable influence on general health, it is considered to be in the interests of the patients that this institution be visited monthly.

The patients at the Provincial Training School and at the Provincial Mental Institute were examined twice during the year, and necessary treatment provided. At the latter institution emergencies were given attention at other times.

There have been many requests from the more remote districts for dental services, and with the return to normal conditions we hope to be able to resume this service.

## Mental Health Division

(C. A. BARAGAR, M.D., *Commissioner*)

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All the institutions, except the Provincial Training School, show an increase in patient population—the Provincial Mental Hospital by direct admission, and the Provincial Mental Institute by transfers.

On January 1st, 1932, the patient population stood at 1,711; males 1,091, female 620. At the end of the year it was 1,846; males 1,149, females 697—an increase of 135; males 58, females 77.

Notwithstanding this increase, with the exception of New Brunswick, the ratio in Alberta of patients to population is, I think, the lowest in Canada, and considerably below the average for the whole of Canada. As the ratio in general is relatively constant, we may expect a further increase in the number of patients seeking such care and treatment as the mental hospitals are able to give. The increase, especially the relatively greater increase in the number of female patients, may be taken as an indication of the growing public confidence in the mental hospital service.

At the Provincial Mental Hospital, Ponoka, we are faced with two problems of major importance. One is the steadily increasing state of overcrowding on the women's wards, reducing air space below a reasonable minimum, and adding greatly to the difficulties of providing for adequate classification, supervision and nursing care. On the men's wards this problem has been temporarily dealt with by a transfer of patients to the Provincial Mental Institute, Oliver, but at present there is no relief for the situation with respect to female patients. The renovation of one of the unused provincial agricultural schools as an auxiliary hospital for female patients would appear at this time of financial stress to be the most practicable solution.

The second great problem is the urgent need of a well organized active treatment service in a specially designed building in its own grounds. Such a service would add greatly to the therapeutic facilities and usefulness of the Provincial Mental Hospital.

While excellent work is being done at the Provincial Training School, it is being carried on in the face of serious difficulties. As an institution it is overcrowded, an unduly large proportion of space and energy is being devoted to the care of low grade hopeless cases, and an unduly small proportion to the training of high-grade socially hopeful cases. The pressure of applications for admission, again unfortunately mainly for low grades, constitutes a serious problem, and one that is becoming increasingly difficult to deal with. More accommodation is urgently needed.

The clinics, especially in Calgary and Lethbridge, have been very active throughout the year, and only the unavoidable limitation of expenditures has prevented similar clinics being established

elsewhere, especially at Medicine Hat and in the Peace River district.

The work of preparing and presenting cases to the Eugenics Board has been active, and may be said to be gaining steadily in favour with both those who carry social welfare responsibilities and with patients as well. Selective and carefully controlled sterilization is undoubtedly a mental hygiene measure of far-reaching importance.

A point has now been reached in our general public mental hygiene programme where a revision of both mental diseases and mental defective legislation may be regarded as desirable and necessary.

The training of nursing and attendant staff has now become fully established, and the first class of psychiatric students will graduate in 1933. Training to a limited extent has also been undertaken at both the Provincial Training School and the Provincial Mental Institute. These are forward steps of great importance, not by any means limited in their effect to the mental hospitals themselves. They have in addition a general educational value in mental hygiene, and will do perhaps more than anything else to break down age-old and erroneous conceptions of mental disorder and of mental hospitals.

Reciprocal affiliation between general and mental hospitals is an objective to be highly desired and earnestly sought, and would not, I am sure, prove one-sided, but would be mutually beneficial.



## Eugenics Board

(J. M. MacEachran, M.D., Chairman)

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Under the provisions of the statute known as The Sexual Sterilization Act the work of the Eugenics Board for Alberta was carried on throughout the year 1932. Four meetings of the board were held during the year. These meetings included four sessions at Edmonton, four at the Provincial Mental Hospital, Ponoka, three at the Provincial Training School, Red Deer, three at Calgary and one at Lethbridge.

During the year 63 cases—20 male and 43 female—were presented and passed by the board. This makes a total of 197 cases—52 male and 145 female—passed since the board was formed in 1929.

During the year 48 operations—14 male and 34 female—were performed. These included 11 cases—3 male and 8 female—that had been presented and passed by the board in 1931.

Twenty cases—8 male and 12 female—passed by the board during the year had not been operated on at the end of the year.

The operations have continued to be uneventful.

Follow-up reports have in general proved satisfactory, and there has been no indication of the fact that sterilization has resulted in any increase of immorality. In fact, due possibly to the fact that cases were under somewhat greater supervision, there has been a distinct improvement in this respect. It is desirable as soon as the financial situation permits, to increase the frequency and thoroughness of follow-up contacts, as they undoubtedly have a beneficial influence on patients.

The Act is working smoothly, and no complaints have been received. The recognition of its importance as a mental hygiene measure is steadily gaining ground.

## Psychopathic Ward, University of Alberta Hospital

(C. A. BARAGAR, M.D., *Director*)

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The psychopathic ward was opened for the reception of patients January 29th, 1931, and provides accommodation for 16 patients in the south wing of the hospital. During the first 11 months of its operation, 93 psychiatric patients were admitted, of whom 47 were men and 46 women. During the 12 months covered by this report 120 psychiatric cases were admitted, exclusive of 18 cases in residence for a day or more each for prophylactic investigation. Of the 120, 110 were first admissions. Of these 56 were men and 64 were women. Of the first admissions, 64.56% were voluntary, 22.73% by one medical certificate, and 2.72% by two medical certificates. In addition, 7.29% were admitted by warrant and 2.72% were transferred from other institutions.

Of the first admissions, it will be noted that 33.63% were born in Canada, 27.27% in Great Britain or other British Dominions, 13.63% in the United States, and 25.46% in other countries.

As to residence, 43.63% came from Edmonton, 75.5% from cities or towns including Edmonton, 22.7% from rural districts, and 1.8% from outside the Province. The various occupations were fairly generally represented.

Of the men, 46.16% were single and 44.23% married, 3.84% widowed and 5.77% separated; while of the women, 39.66% were single, 51.73% married, 1.72% widowed, and 6.89% separated.

More than half the cases (56.4%) were referred by physicians, the remainder by various organizations, clinics, health departments, and law enforcement authorities being prominent.

With respect to discharges, 40.87% were discharged recovered or improved. Of these, almost half had fully recovered, or were so much improved that they were on the point of full recovery at the time of discharge; 15.65% were unimproved on discharge, and 3.48% were discharged from a period of observation; 38.26% were admitted or returned to one of the provincial mental institutions. There were two deaths. Unfortunately, one of these was due to self-inflicted injuries.

Owing to the fact that without special authority the duration of psychopathic treatment is three months, and also to the fact that mental illness is likely to be prolonged, the recovery rate is smaller than would otherwise be the case.

With regard to the diagnoses the various psychiatric reaction types were represented, 16.34% belonging to the organic and toxic states, 57.25% to the so-called functional states.

In addition to the work in connection with patients under treatment in the psychopathic ward, there has grown up about the ward a consultation service—a service that has been greatly facilitated,

one might even say made possible, by the presence of the ward. As this work has grown to a place of no small importance, tables are appended covering it. It will be noted that 151 consultations, exclusive of re-examinations, have been carried out, and that while the majority of these have been at the request of physicians, many have been referred by police and other authorities.

The psychopathic ward is serving a very useful purpose, not only with respect to patients suffering from psychiatric conditions of short duration, but as a centre for observation of cases before admission to a mental hospital of cases referred by magistrates and medical practitioners. In psychiatric cases particularly a period of observation is often of very great value in arriving at an accurate diagnosis. It is also within limits serving an important function in providing psychiatric instruction to senior medical students and nurses, thus in time through them making possible not only the earlier diagnosis and treatment of mental illness, but also a more effective mental health programme for the Province.

TABLE No. 1

	M.	F.	T.
In residence January 1st, 1932 .....	1	9	10
First admissions during 1932 .....	52	58	110
Re-admissions during 1932 .....	4	6	10
Discharges during 1932 .....	52	63	115
In residence December 31st, 1932 .....	5	10	15
Prophylactic cases admitted during 1932 (non psychiatric) .....	11	6	17
Re-admissions prophylactic cases 1932 .....	1	....	1

TABLE No. 2

SHOWING THE DISTRIBUTION OF THE ADMISSIONS, JAN. 1, 1932-DEC. 31, 1932

Mode	M.	%	F.	%	T.	%
Voluntary .....	33	63.46	38	65.52	71	64.55
Certificate 1 .....	11	21.15	14	24.14	25	22.73
Certificate 2 .....	....	....	3	5.17	3	2.72
Warrant .....	5	9.62	3	5.17	8	7.27
From Institutions .....	3	5.77	....	....	3	2.72
Total.....	52		58		110	100%

TABLE No. 3

SHOWING THE MODE OF DISCHARGE OF PATIENTS ADMITTED,  
JAN. 1, 1932-DEC. 31, 1932

	Male	%	Female	%	Total	%
Recovered .....	8	15.38	5	7.94	13	11.30
Much Improved .....	5	9.61	4	6.35	9	7.83
	13	24.99	9	14.29	22	19.13
Improved .....	12	23.08	13	20.63	25	21.74
	— 25	48.07	— 22	34.92	— 47	40.87
Unimproved .....	7	13.46	11	17.46	18	15.65
Observation .....	3	5.77	1	1.59	4	3.48
	— 10	19.23	— 12	19.05	— 22	19.13
Total Discharged.....	35	67.30	34	59.97	69	60.00
Returned to Institutions:						
Ponoka .....	3	....	....	....	....	....
Red Deer .....	....	....	....	....	....	....
Oliver .....	....	....	....	....	....	....
Admitted to Institutions:						
Ponoka .....	14	....	27	....	42.86	44
Red Deer .....	....	....	....	....	....	....
Oliver .....	— 17	32.69	— 27	42.86	44	38.26
Deaths .....	....	....	2 2	3.17	2 2	....
Total.....	52		63		115	
In residence Dec. 31st, 1932	5 5		10 10		15 15	
Total .....	57		73		130	100%

TABLE No. 4				
SHOWING THE DIAGNOSIS OF THE ADMISSIONS, JAN. 1, 1932-DEC. 31, 1932				
	Classification	M.	F.	T. Percentage
1	Traumatic psychoses .....	....	....	....
2	Senile psychoses .....	1	....	1 0.91
3	Psychoses with cerebral arteriosclerosis .....	4	....	4 3.63
4	General paralysis .....	3	1	4 3.63
5	Psychoses with cerebral syphilis.....	....	....	....
7	Psychoses with brain tumour .....	2	....	2 1.82
8	Psychoses with other brain or nervous disease .....	....	1	1 0.91
	Total Organic Psychoses.....			12 10.90
9	Alcoholic psychoses .....	3	....	3 2.72
10	Psychoses due to drugs and other exogenous toxins .....	....	....	....
12	Psychoses with other somatic diseases..	3	....	3 2.72
	Total.....			3 5.44 16.34
13	Manic-depressive psychoses:			
	(a) Manic type .....	2	7	9 18.18
	(b) Depressive type .....	4	3	7 9
	(c) Other types .....	3	1	4 8.18
14	Involuntional melancholia .....	2	7	9 26.36
15	Dementia praecox:			
	(a) Simple .....	1	2	3 27.27
	(b) Hebephrenic .....	....	....	....
	(c) Catatonic .....	2	7	9 3.63
	(d) Paranoid .....	7	11	18 73.60
16	Paranoid and paranoid conditions .....	1	3	4 3.63
	Total Functional Psychoses.....			4 73.60
17	Epileptic psychoses .....	....	1	1 0.91
18	Psychoneuroses and neuroses:			
	(a) Hysterical type .....	....	1	1 1.82
	(b) Psychasthenic type (anxiety and obsessive forms) .....	....	1	1 1.82
	(c) Neurasthenic type .....	....	....	....
	(d) Other types .....	....	....	....
19	Psychoses with psychopathic personality .....	2	....	2 9.10
20	Psychoses with mental deficiency.....	4	6	10 12.74
21	Undiagnosed psychoses .....	....	....	....
22	Without psychoses:			
	(a) Epilepsy without psychoses .....	3	....	3 23.66
	(b) Alcoholism without psychoses.....	....	....	....
	(c) Drug addiction without psychoses .....	....	....	....
	(d) Psychopathic personality without psychoses .....	....	1	1 100.00
	(e) Mental deficiency without psychoses .....	1	4	5 12.74
	(f) Other conditions .....	4	1	5 23.66
				14 100.00





## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 6  
SHOWING THE RESIDENCE OF THE PATIENTS ADMITTED,  
JAN. 1, 1932-DEC. 31, 1932

Residence	Male	Female	Total
Calgary .....	3	1	4
Edmonton .....	25	23	48
Other towns .....	11	20	31
Rural .....	13	12	25
Manitoba .....	....	1	1
Saskatchewan .....	....	1	1
Total.....	52	58	110

TABLE No. 7  
SHOWING BY WHOM PATIENTS REFERRED

Referred by	Male	Female	Total
Edmonton physicians .....	20	30	50
Other physicians .....	3	9	12
City hospitals .....	1	....	1
Mental Hygiene Clinic .....	2	4	6
Provincial Health Department .....	3	2	5
Provincial Relief Department .....	....	3	3
Attorney General's Department .....	2	1	3
Workmen's Compensation Board .....	1	....	1
Alberta Teachers' Alliance .....	....	1	1
Patient or relatives .....	1	....	1
Edmonton police .....	7	4	11
R.C.M.P. ....	8	2	10
Provincial institutions .....	3	1	4
Winnipeg Psychopathic Hospital .....	....	1	1
Unknown .....	1	....	1
Total.....	52	58	110

TABLE No. 8  
SHOWING THE NATIVITY OF THE PATIENTS ADMITTED,  
JAN. 1, 1932-DEC. 31, 1932

Birthplace	Male	Female	Total	Percentage
Canada .....	....	1	1	0.91
Alberta .....	4	10	14	12.72
British Columbia .....	....	1	1	0.91
Manitoba .....	2	1	3	2.72
Nova Scotia .....	2	....	2	1.82
Ontario .....	7	4	11	10.00
Prince Edward Island .....	....	....	....	....
Quebec .....	....	1	1	0.91
Saskatchewan .....	1	3	4	3.63
	— 16	— 21	— 37	33.63
Britain and other British Dominions:				
England .....	8	9	17	15.46
Ireland .....	1	2	3	2.72
Scotland .....	4	5	9	8.18
India .....	....	1	1	0.91
	— 13	— 17	— 30	27.27
United States of America .....	8	7	15	13.63
	— 8	— 7	— 15	13.63
Other countries:				
Denmark .....	....	1	1	0.91
Norway .....	....	2	2	1.82
Belgium .....	....	1	1	0.91
Switzerland .....	1	....	1	0.91
Germany .....	1	....	1	0.91
Galicia .....	1	....	1	0.91
Roumania .....	1	....	1	0.91
Hungary .....	....	1	1	0.91
Austria .....	4	1	5	4.55
Poland .....	4	2	6	5.45
Bohemia .....	1	1	2	1.82
Ukraine .....	....	3	3	2.72
Russia .....	1	....	1	0.91
Italy .....	1	....	1	0.91
Assyria .....	....	1	1	0.91
	— 15	— 13	— 28	25.46
Total.....	52	58	110	100.00

TABLE No. 9

SHOWING THE OCCUPATION OF THE PATIENTS ADMITTED,  
JAN. 1, 1932-DEC. 31, 1932

Occupation.	Male.	Female.	Total.	Occupation.	Male.	Female.	Total.
Agent (insurance) .....	1	...	1	Labourer .....	6	...	6
Agent (real estate).....	1	...	1	Miner .....	3	...	3
Butcher .....	1	...	1	Mine operator .....	1	...	1
Brakeman .....	1	...	1	Nil .....	1	7	8
Cook .....	2	...	2	Nurse .....	...	1	1
Carpenter .....	3	...	3	Porter and clerk .....	1	...	1
Domestic .....	...	10	10	Policeman .....	1	...	1
Dealer (auto) .....	1	...	1	Student (public or high			
Dealer (truck) .....	1	...	1	school) .....	1	2	3
Ditch rider .....	1	...	1	Student (university)....	1	—	1
Farmer .....	13	...	13	Salesman .....	1	1	2
Farmer and blacksmith....	1	...	1	Stenographer .....	1	1	2
Farmer and rancher.....	1	...	1	Seamstress .....	...	1	1
Gardener .....	1	...	1	Teacher .....	...	3	3
Housewife (urban) .....	...	16	16	Trapper .....	1	...	1
Housewife (rural) .....	...	16	16	Unemployed .....	2	...	2
Hostler .....	1	...	1				
Janitor .....	3	...	3	Total.....	52	58	110

TABLE No. 10

SHOWING THE MARITAL CONDITION AND AGE OF PATIENTS ADMITTED,  
JAN. 1, 1932-DEC. 31, 1932

Age	Single		Married		Widowed		Separated		Divorced		Total	%
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
10-15 .....	...	1	...	...	...	...	...	...	...	...	1	0.91
16-20 .....	4	7	...	...	...	...	...	...	...	...	11	10.00
21-25 .....	3	10	...	2	...	...	...	...	...	...	15	13.65
26-30 .....	3	3	1	6	...	...	...	...	...	...	13	11.82
31-35 .....	3	1	2	5	...	1	...	...	...	...	12	10.90
36-40 .....	3	...	3	6	...	...	2	...	...	...	14	12.72
41-45 .....	3	...	1	3	...	...	1	...	...	...	8	7.27
46-50 .....	1	1	8	3	...	...	2	...	...	...	15	13.65
51-55 .....	1	...	2	4	...	...	1	1	...	...	9	8.18
56-60 .....	2	...	4	1	...	...	...	...	...	...	7	6.36
61-65 .....	1	...	1	...	...	...	...	...	...	...	2	1.82
66-70 .....	...	...	1	...	2	...	...	...	...	...	3	2.72
Total .....	24	23	23	30	2	1	3	4	...	...	110	
% .....	46.16	39.66	44.23	51.73	3.84	1.72	5.77	6.89	...	...		
	42.73 %		48.18 %		2.72 %		6.86 %					100 %

TABLE No. 11

SHOWING THE RELIGION OF PATIENTS ADMITTED, JAN. 1, 1932-DEC. 31, 1932

Denomination	Male	Female	Total
Anglican .....	6	6	12
Baptist .....	...	1	1
Greek Catholic .....	...	2	2
Greek Orthodox .....	1	1	2
Jewish .....	...	1	1
Lutheran .....	4	6	10
Mohammedan .....	...	1	1
Methodist .....	...	1	1
None .....	...	1	1
Protestant .....	17	11	28
Plymouth Brethren .....	1	1	2
Presbyterian .....	4	3	7
Roman Catholic .....	17	12	29
Rosierucian .....	...	1	1
Seventh Day Adventist .....	...	1	1
United Church .....	2	7	9
Unknown .....	...	2	2
Total.....	52	58	110

TABLE SHOWING NUMBER OF CONSULTATIONS

	Male	Female	Total
Consultations .....	97	54	151
Re-examined consultation .....	5	7	12
Total.....	102	61	163

TABLE SHOWING WHERE PATIENT SEEN

	Male	Female	Total
General hospitals .....	40	25	65
In own home .....	7	6	13
Not seen, but case reported by relatives in consultation....	2	...	2
Police Station .....	9	1	10
R.C.M.P. Guardroom .....	5	...	5
Provincial Gaol .....	...	1	1
At Psychopathic Ward, University Hospital.....	32	18	50
In city physician's offices .....	1	1	2
In Central Office, Administration Building.....	...	1	1
Total.....	97	54	151

## DEPARTMENT OF PUBLIC HEALTH

NUMBER OF CONSULTATION CASES RECOMMENDED OR ADMITTED TO THE  
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHOPATHIC WARD,  
UNIVERSITY HOSPITAL

Admitted to	Male	Female
Psychopathic Ward .....	16	20
Provincial Mental Hospital, Ponoka .....	8	1
Provincial Mental Institute, Oliver .....	1	....
Recommended for admission to:		
Provincial Mental Hospital, Ponoka.....	7	1
Psychopathic Ward, Edmonton .....	....	1
Recommended for admission to a general hospital for a thorough examination .....	1	....
Total.....	33	23

## CONSULTATIONS REFERRED BY

Referred by	Male	Female
Doctors .....	58	40
Public Health Department (Provincial).....	2	1
Relief Department (Provincial) .....	1	2
Police Magistrates .....	10	1
Juvenile Court .....	1	....
R.C.M.P. ....	5	....
Insurance Companies .....	1	1
Lawyers .....	1	1
Pensions Advocate Department .....	....	....
Pensions and National Health .....	13	1
Soldiers' Civil Re-establishment .....	1	....
Provincial Civil Service Commissioner.....	....	1
Parents .....	....	2
Self .....	2	....
Unknown .....	2	4
Total.....	97	54

## DIAGNOSIS OF THE CONSULTATIONS

Classification	Male	Female
1 Traumatic psychoses .....	....	....
2 Senile psychoses .....	4	1
3 Psychoses with cerebral arteriosclerosis.....	8	2
4 General paralysis .....	2	....
5 Psychoses with cerebral syphilis .....	....	....
6 Psychoses with Huntington's Chorea.....	2	....
7 Psychoses with brain tumour .....	1	....
8 Psychoses with other brain or nervous diseases .....	....	1
9 Alcoholic psychoses .....	3	....
10 Psychoses due to drugs or other exogenous toxins .....	....	....
11 Psychoses with pellagra .....	....	....
12 Psychoses with other somatic diseases.....	1	1
13 Manic-depressive psychoses:		
(a) Manic type .....	....	1
(b) Depressive type .....	2	2
(c) Other types .....	....	....
14 Involutional melancholia .....	2	2
15 Dementia praecox:		
(a) Simple .....	1	....
(b) Hebephrenic .....	....	....
(c) Catatonic .....	6	4
(d) Paranoid .....	7	5
16 Paranoia and paranoid conditions .....	4	1
17 Epileptic psychoses .....	3	1
18 Psychoneuroses and neuroses:		
(a) Hysterical .....	1	5
(b) Psychasthenic .....	3	1
(c) Neurasthenic .....	8	3
(d) Other types .....	....	....
Psychoneuroses not defined .....	2	4
19 Psychoses with psychopathic personality.....	1	....
20 Psychoses with mental deficiency.....	3	4
21 Undiagnosed psychoses .....	....	....
22 Without psychoses:		
(a) Epilepsy without psychoses.....	2	1
(b) Alcoholism without psychoses.....	2	....
(c) Drug addiction without psychoses .....	....	....
(d) Psychopathic personality without psychoses .....	....	1
(e) Mental deficiency without psychoses .....	8	4
(f) Other conditions .....	6	1
Not diagnosed .....	14	9
Total.....	97	54



## Mental Hygiene Clinics

(C. A. BARAGAR, M.D., *Commissioner of Mental Institutions  
and Director of Mental Health*)

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Three regular clinics are being conducted in the Province. The Edmonton Clinic is held every Tuesday afternoon from 2 to 5 p.m. in the outpatient department of the University Hospital; the Calgary Clinic every alternate Thursday in the baby clinic quarters of the Police Building; and the Lethbridge Clinic every fourth Friday in the Nursing Mission. Dr. Geo. A. Davidson, medical superintendent of the Provincial Mental Hospital, with the assistance of Mr. E. J. Kibblewhite, psychologist and social worker, has conducted the clinics at Calgary and Lethbridge, while Dr. W. J. McAlister, with the assistance of Miss Agnes Starkie, social worker, has attended the Edmonton Clinic. The Commissioner of Mental Institutions has kept closely in touch with all three clinics.

The assistance of Dr. H. E. Smith, of the department of philosophy of the University of Alberta, as consultant in psychology has been invaluable. The assistance of Miss Young, nurse in charge in Edmonton, of Miss Lavell and Miss Craig, public health nurses in Calgary, and of Miss Tilley, who has charge of the Nursing Mission in Lethbridge, has proved indispensable.

As will be seen from the accompanying tables, there has been a steady increase in the work of the clinics since their inception. The new cases have increased from 52 in 1929, 142 in 1930, to 354 in 1931, with a slight falling off—only in Edmonton—in 1932. This slight decrease has been more than counterbalanced by a great increase in the follow-up work. The tables do not, moreover, cover a new phase of the work that has developed under Dr. Davidson's direction in the southern part of the Province—the follow-up work in connection with patients who have been discharged. This work alone is of very great importance and worthy of encouragement.

The work has grown so much in the Calgary and Lethbridge clinics that it is becoming increasingly difficult to complete it in the day in each place at the clinician's disposal.

Patients visiting the clinics receive a physical (especially neurological) and a psychiatric examination, including a psychometric where indicated, and appropriate recommendations are made. For the correction of physical disabilities the patient is referred to his own physician. For problems arising out of a mental or social maladjustment the patient himself, or the parent or guardian, or the referring agency, is advised as to how the case may be dealt with. Interviews with parents or guardians are sought whenever possible in order that their confidence may be won and their intelligent and sympathetic co-operation secured.

Many different agencies have co-operated in referring cases, as will be seen by Table 4. The chief referring agencies are the Department of Dependent and Neglected Children, parents and

guardians, schools, health departments and doctors. The interest of these men and women in the mentally and socially handicapped is reassuring.

It will be noted that 10.4% of the new cases were in the pre-school age; 52.4% in the school period, while 37.3% were adults. In 41.4% of the cases mental deficiency with or without complications was a factor. In 8.4% of the cases epilepsy was a factor, and in 15.5% psychoses or prepsychotic states. In 15.9% behaviour problems without mental defect led to the patient being brought to the clinic.

While every possible assistance is given those referring cases to the clinic in solving their problems, it may be inferred from the nature of the cases that the work of adequately dealing with them is greatly handicapped by lack of accommodation at the Provincial Training School, and other appropriate facilities such as supervised hostels for boys and girls, farm colonies and suitable homes. In a new country, and particularly at a time of economic distress, one cannot expect to acquire all these facilities suddenly, but they constitute goals toward which we may work.

At present the clinics are touching but three centres. Yet there is definite evidence that they may be carried into other centres, and particularly into the Peace River district, as soon as the economic situation will permit.

TABLE No. 1  
SUMMARY OF CASES PRESENTED AND FOLLOW-UP REPORTS  
FOR THE YEARS 1931-1932

Clinic	1931		1932		All Cases Since 1929	
	New Cases	Follow Ups	New Cases	Follow Ups	New Cases	Follow Ups
Edmonton .....	201	127	123	363	467	491
Calgary .....	95	151	131	225	419	425
Lethbridge .....	58	53	55	65	130	118
Sub-totals .....	354	331	309	653	1,016	1,034
Totals .....	685		962		2,050	

TABLE No. 2  
AGE AND SEX CLASSIFICATION

	Edmonton			Calgary			Lethbridge			Totals			Percentage		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
0-5 years .....	8	2	10	6	4	10	3	1	4	17	7	24	11.4	4.4	7.8
6-10 years .....	8	11	19	23	14	37	5	5	10	36	30	66	24.3	18.8	21.1
11-15 years .....	14	12	26	15	20	35	5	4	9	34	36	70	22.8	22.5	22.7
16-20 years .....	9	11	20	3	20	23	6	3	9	18	34	52	12.1	21.2	16.8
21-25 years .....	3	9	12	1	5	6	....	5	5	4	19	23	2.7	11.9	7.5
26-30 years .....	2	4	6	2	....	2	2	4	6	6	8	14	4.0	5.0	4.5
31-35 years .....	4	3	7	6	3	9	....	4	4	10	10	20	6.7	6.2	6.5
36 years .....	14	9	23	7	2	9	3	5	8	24	16	40	16.0	10.0	12.9
Total.....	123			131			55			309			100%		

TABLE No. 3  
CLASSIFICATION ACCORDING TO INTELLIGENCE QUOTIENT

I.Q.	Edmonton			Calgary			Lethbridge			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
0-25 .....	6	2	8	1	1	2	2	....	2	9	3	12
26-50 .....	4	8	12	2	3	5	1	2	3	8	15	23
51-75 .....	16	19	35	17	28	45	5	10	15	42	58	100
Totals.....	26	29	55	20	32	52	8	12	20	59	76	135

TABLE No. 4  
AGENCIES REFERRING CASES

Agency	Edmonton	Calgary	Lethbridge	Total
Department of Dependent and Neglected Children .....	36	9	....	45
Children's Aid Relief Department (City).....	....	12	....	12
Juvenile Courts .....	8	....	3	11
Other Courts .....	....	....	4	4
City Schools .....	3	38	....	41
Parents and Guardians .....	15	21	24	60
Homes: Kiwanis .....	1	....	....	....
Mountview .....	....	13	....	....
Woods .....	....	3	....	....
Bethany Lodge .....	3	....	....	20
Salvation Army .....	3	....	....	3
Civic Relief Department .....	7	....	....	7
City Health Department .....	2	....	....	2
Provincial Health Department .....	20	14	1	35
Doctors .....	11	5	9	25
Other Clinics .....	9	4	5	18
Pensions Department .....	....	5	....	5
Roman Catholic Institutions .....	....	2	....	2
Indian Reserve Officials .....	....	2	....	2
Municipal Councils .....	....	....	3	3
Self .....	5	....	6	11
Other Agencies .....	....	3	....	3
Totals.....	123	131	55	309

TABLE No. 5  
CLASSIFICATION OF CASES

Classification	Edmonton	Calgary	Lethbridge	Total
Pre-School Age:				
For examination only, no trouble.....	....	3	1	4
Infantile paralysis .....	....	....	1	1
Discipline or conduct problem with defect	1	4	1	6
Mental deficiency .....	7	4	2	13
Mental deficiency with behaviour problem	2	....	....	2
Epilepsy .....	....	3	....	3
Epilepsy with mental deficiency .....	....	....	1	1
Mentally unbalanced .....	....	1	....	1
Hydrocephalitis .....	1	....	....	1
	— 11	— 15	— 6	
School Age:				
Vocation guidance only, no defect.....	1	....	6	7
Mental defect .....	22	6	4	32
Mental defect with behaviour problem...	5	26	5	36
Personality defect .....	2	....	....	2
Behaviour problem without defect .....	11	27	3	41
Delinquency, stealing with mental defect	3	....	....	3
Delinquency, stealing, without mental defect .....	5	....	....	5
Backwardness without defect .....	....	12	1	13
Epilepsy .....	1	4	2	7
Nervous condition .....	1	7	3	11
Medical care only .....	2	2	1	5
	— 53	— 84	— 25	
Adult:				
Mental deficiency .....	8	4	2	14
Mental deficiency with delinquency .....	2	....	....	2
Mental deficiency with sex delinquency..	2	2	3	7
Mental deficiency with behaviour problem	....	1	....	1
Mental deficiency with epilepsy .....	4	4	3	11
Delinquency without defect .....	2	....	....	2
Sex delinquency without defect .....	1	....	....	1
Epilepsy without defect .....	....	1	3	4
Psychotic or pre-psychotic .....	32	17	9	58
Senility .....	4	....	....	4
Alcoholic deterioration .....	1	....	....	1
Nervousness .....	....	1	2	3
Encephalitis .....	....	2	....	2
Medical care only .....	3	....	2	5
	— 59	— 32	— 24	
Totals.....	123	131	55	309

TABLE No. 6  
CAUSE OF MENTAL DEFICIENCY

Cause	Edmonton	Calgary	Lethbridge
Some positive heredity known .....	31	12	9
Sickness, injury, epilepsy .....	10	9	1
Unknown .....	14	31	10
Totals.....	55	52	20

## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 6A

## MAJOR COMPLICATIONS OF THE MENTAL DEFICIENCY CASES

Complication	Edmonton	Calgary	Lethbridge
Behaviour and delinquency without sex delinquency ..	18	16	8
Epilepsy .....	8	7	2
Sex delinquency .....	11	14	4
General retardation .....	18	15	6
Totals.....	55	52	20

TABLE No. 6B

## MAJOR RECOMMENDATIONS OF THE MENTAL DEFICIENCY CASES

Recommendation	Edmonton	Calgary	Lethbridge
Sterilization and supervision .....	10	12	8
Institutional training and care .....	21	26	3
Medical and surgical treatment .....	7	3	....
Medical treatment—epilepsy .....	....	....	2
Continue present treatment with periodical visits to clinic .....	9	5	6
Modified school work .....	....	....	1
Special class at school .....	1	5	....
Placement in good home .....	5	....	....
Deportation .....	2	1	....
Totals.....	55	52	20

TABLE No. 7

## CHIEF RECOMMENDATIONS AS TO TREATMENT

Recommendation	Edmonton	Calgary	Lethbridge	Total
Continue present treatment .....	10	30	3	43
Change in home discipline .....	10	21	6	37
Change in school discipline .....	3	2	....	5
Continue in school, but with vocational emphasis .....	3	....	....	3
Training in self-discipline .....	4	....	....	4
More organized social life .....	4	....	....	4
Placement in a good home .....	7	1	1	9
Closer supervision .....	9	....	....	9
Admission to special class .....	1	8	....	9
Admission to Red Deer Training School.....	21	14	1	36
Admission to Ponoka Mental Hospital.....	11	6	5	22
Admission to Industrial School.....	4	....	....	4
Deportation .....	4	2	....	6
Medical treatment, including treatment by specialist and prescribed medical care....	21	16	16	53
Sterilization followed by supervision.....	11	12	8	31
More occupational work and social contacts .....	....	4	3	7
Return to the Clinic for consultation and examination .....	....	9	5	14
Other recommendations .....	....	6	3	9
Totals.....	123	131	55	309



## Provincial Mental Hospital, Ponoka

(G. A. DAVIDSON, *Medical Superintendent*)

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At the beginning of the year there were 1,195 patients in residence—672 males and 523 females. This shows an increase of 92 patients as from January 1st, 1931. At the end of the year there were 1,217 patients in residence—621 males and 596 females. The actual number of male patients in residence was considerably less than at the beginning of the year, as 118 had been transferred, practically all to the Provincial Mental Institute at Oliver. The female patients, however, showed an increase of 73, and this increase has caused marked overcrowding on the female side of the hospital.

The total number of admissions for the year was 497, as compared with 416 for the preceding year (81 patients more). Of these, 393 (79.07%) were first admissions and 95 (19.11%) re-admissions. Nine (1.81%) were transferred from other institutions.

Of the first admissions, 95 (23.86%) were by voluntary application, while 298 were committed by various methods. The voluntary admissions have increased by about 5%, due largely to the still greater number of patients (51) with neurosyphilis but without psychosis, who were admitted for malarial treatment.

Of the admissions, 172 (35%) were Canadian born, 110 (22%) were natives of Great Britain or of British possessions, 89 (17.8%) were natives of the U.S.A., and 128 (25.7%) from all other countries.

The increase in patients has been mainly in the Schizophrenic (increase of 32), manic-depressive (increase of 14), and non-psychotic neurosyphilitic (increase of 18) groups. Last year there was a greater increase in the psychoses associated with old age.

A total of 1,697 patients were treated during the year, an increase of 177 over last year.

During the year 268 patients were discharged, 120 were transferred to other institutions, 29 were deported and 61 died, totalling in all 478 patients. Two patients eloped during the year. The discharged rate as distinct from transfers, deportations and deaths was 53.4% of the total admission rate.

The death rate based on the total number under treatment and observation was 3.59%. This is again lower than last year's rate (3.95%; last year third lowest in history). Respiratory diseases (including tuberculosis, 7 cases) accounted for approximately 40% of the deaths; 9 deaths were due to general paresis and 2 to typhoid fever. We were extremely fortunate in having no case of suicide during the year. Two of the deaths were accidental.

### ACCIDENTS

On the male side of the hospital there were 5 major accidents, two of which unfortunately resulted in death. An aged man was

attacked by another patient, and suffered severe lacerations to the head. While confined to bed he developed broncho-pneumonia and died. The second man died of rupture of the intestines, following a scuffle. There were also three fractures, one of the nose, the bones of the feet and of the humerus.

On the female side, 1 accidental death occurred when a woman died as a result of swallowing a dessert spoon. One patient was rather severely burned, and 1 patient suffered from a fracture of the upper right arm.

Considering the number of patients that are housed in rather crowded quarters, we may consider ourselves fortunate in the small number of accidents that have occurred.

### GENERAL HEALTH

We have been fortunate in having but little sickness among the staff and patients. No serious epidemics occurred. During the year cases of typhoid fever have continued, a total of 10 cases with 2 deaths. All cases who might possibly be carriers have been isolated on one ward. We are grateful for assistance and suggestions from various members of the Department of Public Health. The isolated cases are being periodically examined in an effort to isolate typhoid bacilli from the stools and urine. All members of the female staff and all patients have been inoculated. In spite of this, an occasional case is reported.

The custom of doing physical examination on all members of the staff has been continued.

### STAFF

On March 15th Dr. Geo. A. Davidson was promoted from Assistant Medical Superintendent to Medical Superintendent, succeeding Dr. C. A. Baragar, Commissioner of Mental Diseases and Director of Mental Health, who was Acting Superintendent.

Dr. R. R. MacLean recommenced duties in the hospital on January 18th, after having done post-graduate work in Boston, London and Zurich.

Dr. E. G. Simmonds terminated his appointment as temporary pathologist on September 30th, after having done most useful work for a year.

Dr. Douglas B. Roxburgh succeeded Dr. Simmonds as temporary pathologist.

Dr. Thos. C. Michie joined the medical staff of the hospital on October 10th. Dr. Michie has just completed a three-year fellowship at the Mayo Clinic, Rochester, Minnesota, and has proved a most useful addition to our staff.

Dr. H. C. Furst, after having served the hospital for about three years as assistant physician, resigned on October 31st, and left for London, England, to do post-graduate work.

Mr. A. Gill was promoted to the position of attendant in charge of hydrotherapy on May 1st.

Mr. W. T. Watts again filled the temporary position of student interne during the summer months.

Considering the size of the hospital and the large annual admission rate, the number on the medical staff was reported as too few last year. This is even more so this year, as the admissions have shown quite a marked increase. We appreciate the need for the most rigid economy at the present time, however.

### CLINICAL WORK (REORGANIZATION)

This has been carried on as in the past year. Psychiatric, physical and neurological examinations are made following the admission of a patient. The physically ill patients have been cared for in the infirmaries. All cases are presented in staff conference shortly after admission, and cases are reviewed frequently to consider the advisability of the patient doing a certain type of work, having parole, or to consider the patient's discharge.

Medical staff conferences were continued at 8:30 a.m. on Tuesdays and Thursdays and at 1:30 p.m. on Wednesdays and Fridays.

The mode of admission decided upon last year has proved quite satisfactory. The ward arrangement has been left largely unchanged from last year. This is proving quite satisfactory.

Prophylactic malarial treatment has continued, and the number of cases admitted for this treatment has shown an increase. The following is a synopsis of the malarial treatment during the year: General paresis and tabo-paresis, 28 cases; cerebral syphilis, 1 case; asymptomatic neurosyphilis, 51 cases; total, 80 cases.

The Superintendent of the hospital has continued with the work of the Mental Hygiene Clinics in Calgary and Lethbridge, and has been assisted by periodic visits of the Commissioner. These clinics continue to be held fortnightly at Calgary and every four weeks at Lethbridge.

### DENTAL CLINIC

The dental work has continued successfully as in the past, under the direction of Dr. S. M. Snedden.

#### SUMMARY OF THE WORK

Full upper and lower dentures.....	48	Gold inlays .....	5
Partial upper dentures .....	4	Scalings .....	386
Partial lower dentures .....	6	Treatments .....	1452
Relining dentures .....	2	X-rayed .....	29
Repaired dentures .....	51	General anaesthetics .....	3
Relieving denture irritation .....	69	Extractions .....	1278
Prophylaxis .....	93	Abscessed teeth extracted .....	63
Fillings .....	215	Examinations and treatments .....	1591

### HYDROTHERAPY

Although this form of treatment has continued, it has not been used as much as in the past. This is due to the increase in the amount of occupational therapy being done. For certain types of cases the prolonged baths prove most useful. These are supplemented by massage, wet packs and electric cabinet treatment. Mr. Gill has done splendid work since taking charge of this department.

### OCCUPATIONAL THERAPY

There has been a great increase in the amount of occupational therapy being done during the year. This is largely due to the energy and interest of Dr. MacLean. An attempt has been made to get everyone who is physically able doing something, and there is



a marked decrease in the number of idle patients on the wards. This has had a very valuable effect in keeping the patients healthier and more contented, and has resulted in some very useful work being done.

Additional occupational therapy rooms have been opened up on the wards. The outside workers have had groups allotted to them, and it has been possible by constant contact with the various groups to keep the patients beneficially and happily employed. Sometimes it has been necessary to change a patient from one group to another until eventually he finds his niche.

Most of this work has been done with the male patients, while the female patients have stayed with the more formal types of occupational work. There has been an increase in the amount of occupational work done on the wards. During the year also, groups of female patients were chosen to work in the gardens gathering the smaller vegetables, etc. These patients have worked under the supervision of nurses.

On the male side also plots were set aside for gardens for the elderly men. They were permitted to have a plot that they might consider their own, where they planted their gardens and cared for them during the year.

On the whole, it is felt that great progress has been made during the year in occupational work.

#### SOCIAL SERVICE

The hospital social worker has continued to devote most of his time to the Mental Hygiene Clinics, but has made periodic visits to the hospital to do the necessary work. In the Mental Hygiene Clinics a large amount of follow-up work has been done, and numerous ex-patients and relatives of patients are seen at these clinics both by the social worker and the physician in attendance. The relatives of patients appear to appreciate being able to receive information and advice at these clinics. With the amount of help available, however, no very extensive social service work can be attempted.

#### TRAINING SCHOOL

The training school had a most successful year. This was the first year that all three years of the training were given to student nurses, and the first class is preparing to graduate in the spring of 1933.

The first attendants' class to graduate will also be ready in the spring, and both men and women seem to be quite enthusiastic about their training.

A post-graduate course is being conducted for general hospital nurses, and this is proving very popular with the nursing profession, judging by the number of applications being received for admission to this class. It is proposed to increase the time of this course to cover a period of 12 months.

This means a great deal of teaching, and, as most of it is done outside of regular hours, it means a good deal of work for the medical staff and the members of the nursing staff who are teaching. Great credit is due to the enthusiasm shown by the members of the



teaching staff, and each one has willingly undertaken his share of the work. We feel that training of nurses is an essential factor in the better understanding and treatment of patients.

The following were the numbers commencing in the various classes:

Nurses' Training:		Attendants' Training:	
3rd year .....	8	3rd year .....	27
2nd year .....	17	2nd year .....	11
1st year .....	14	1st year .....	10
Post Graduate Students .....		7	

### LIBRARIES

The hospital is in need of a general library for patients. There are a few books scattered about the various wards, but insufficient to be of much use. It is hoped that a library may be developed before long. This could no doubt be instituted without much cost by making an appeal to the public for books.

A number of volumes were added to the medical library, and this library has been used extensively by the medical staff. During the winter months meetings were held each Monday evening to review the literature in the medical journals.

### RELIGIOUS SERVICES

These have been continued as in the past, and are much enjoyed by the patients. We are very grateful to several of the ministers for their periodic visits to see patients.

### RECREATION AND ENTERTAINMENT

Moving pictures have been continued to be shown throughout the year at weekly intervals. Silent pictures have been increasingly difficult to obtain, and it is evident that soon they will not be available. It is hoped that equipment may be secured for talking pictures, as the patients are very fond of the weekly show.

Patients' dances were again held fortnightly throughout the fall and winter seasons, and were much enjoyed by the patients. Discarded attendants' uniforms have been remodelled for patients, and the appearance of the patients has improved quite markedly.

Under the direction of Dr. W. H. Cassels a number of the staff produced Henry Van Dyke's "The Other Wise Man" for the benefit of the patients and as a Christmas entertainment. This was put on on December 23rd and was followed by the patients' Christmas tree. The patients' Christmas dinner was held as usual on December 25th, and was a very enjoyable affair.

It is hoped to organize a dramatic society and glee club early in 1933. We are grateful to Mrs. Haynes for a visit to the hospital in connection with the Christmas play. Mrs. Haynes, who is from the Department of Extension of the University of Alberta, gave many helpful suggestions.

The Oliver Dramatic Society again visited the hospital and entertained the patients with a play which was much appreciated.

The patients' and staff field day was again much enjoyed, and was held on August 10th. Many friends from Ponoka assisted with the programme, and their co-operation is always much appreciated.

The open-air skating rink again added a great deal to the enjoyment of patients and staff.

Recreational classes were conducted by the occupational department, and proved of great benefit and enjoyment to the patients.

The hospital football club, under the direction of Mr. Percy Mitchell, again had a most successful year, and demonstrated repeatedly that we have the finest collection of football players in our part of the Province. They were successful in bringing to the hospital the following trophies: The Snell Shield, football champions of Central Alberta; the Red Deer Citizens' Cup; the Ponoka Agricultural Society Cup.

A series of very enjoyable staff dances were again held throughout the year. Unfortunately, however, the floor in the reception room of the Nurses' Home was warped considerably, and will have to be refinished shortly. The staff "At Home" was again a most successful event, and was much enjoyed by the children of the staff as well as the grown-ups.

The tennis club was reorganized, and had a most successful year. Several tournaments were held.

A badminton club was organized among the staff, and the game has proved very popular. The recreation hall is used whenever available during the winter for badminton.

#### VISITORS

As in the past, many visitors have come to the hospital to see relatives. We are always glad to have them, and it gives us an opportunity of learning more of the patients and also of keeping the relatives informed as to the progress of patients, the difficulties of caring for certain types of patients, etc.

We consider ourselves fortunate in having had a number of people who are interested in our work visit the hospital. Several representatives from the United Farm Women's organization have been particularly welcome.

Official visitors, professional, departmental and otherwise, have visited the hospital. We are always pleased with their interest.

The Commissioner for Mental Diseases and Director of Mental Health has made almost weekly visits, and has proved a very great stimulus to the work, assisting greatly with plans for the betterment of the care being given to patients.

#### MEDICAL MEETINGS

These have been organized to be held every six weeks during the winter. An outside speaker is invited (usually from Edmonton or Calgary), and is regarded as the principal speaker. A member of our staff prepares a paper or a clinic for these meetings, and several fine papers have been prepared. These are much enjoyed by physicians in our neighborhood, and the meetings held during the year have been well attended.

#### ACCOMMODATION AND ALTERATIONS

Unfortunately, overcrowding has become more marked, and the accommodation we have has become inadequate. The overcrowding

is particularly marked on the female side of the hospital, and we hope that arrangements will soon be completed to take care of this overcrowding.

During the year arrangements were made to increase the lavatory and bathing accommodation on Ward 4. At the time of writing this report the alterations have been made. Four shower baths were put into this ward and the number of toilets increased. This ward is used mainly for men working outside, and the showers are very satisfactory.

The operating room is unsatisfactory, and will have to be improved before it is adequate to care for all necessary work. If this is done there is no reason why most of the cases passed by the Eugenics Board cannot be operated upon in this hospital with a considerable saving to the Province on hospital accommodation. In a hospital of this size it is necessary to be prepared for any type of surgical case, and we must be prepared also to handle several obstetrical cases during the year. All of this work can be quite satisfactorily done in a mental hospital, and furthermore it should be done, as general hospitals usually object to caring for mental patients. Our nurses in training can gain a good deal from this work.

An attempt has been made during the year to classify patients more satisfactorily. On the quieter wards an attempt has been made to brighten and make them more home-like.

Infirmary patients have been collected on definite wards, and this has worked out more satisfactorily as the patients can be given better attention.

The buildings have been kept in exceptionally good repair, and a good deal of painting has been done. This work is under the direction of Mr. D. J. Smith, Superintendent of Building Maintenance.

It is planned to change the entrance road to the hospital. There are two main reasons for this: (a) to give a better view of the buildings on approaching the hospital, and (b) to keep sightseers farther back from the buildings. This can be done without a great deal of difficulty.

#### DEPARTMENTAL ACTIVITIES

*Laundry.*—The laundry is hard pressed to keep up with the demands made upon it. Extra accommodation will no doubt have to be provided before long; 1,534,020 pieces were put through the laundry, a monthly average of 127,835 pieces.

*Tailor Shop.*—This has continued to do very good work, and many patients are usefully employed here. Most of them enjoy this type of work, and it will be of considerable benefit to some of them following their discharge.

#### SUMMARY

Blue uniforms .....	63	Strong blankets .....	117
Blue pants .....	61	Towels .....	207
Blue patients' suits .....	1	Tablecloths .....	147
Corduroy coats .....	454	Smocks .....	87
Corduroy pants .....	677	Overalls .....	120
Shirts .....	1341	Cook's caps .....	6
Sheets .....	2135	Cook's coats .....	27
Nightshirts .....	447	Cook's pants .....	40
Pillow cases .....	132	Attendants' coats .....	94
Re-covering mattresses .....	76	Rubber sheets .....	355
Pillow ticks .....	297	Rubber aprons .....	21



Kitchen aprons .....	282	Draw sheets .....	28
Bath hammocks .....	13	Re-covering sheepskins .....	14
Bath covers .....	15	Pack sheets .....	16
Strait-jackets .....	4	Pyjama suits .....	100
Restraint suits .....	12	Pack blankets .....	12
Stretchers .....	1		

*Occupational Carpenter Shop.*—About 40 patients are kept employed in this shop at all times. Much useful work is done both in the repair line and in the manufacture of new articles. This again is a department that the patients enjoy working in, and the work learned will prove of great benefit to them.

## SUMMARY OF WORK

## REPAIRS

Chairs .....	879	Rep. games .....	15
Blocks .....	94	Scythes .....	7
Beds .....	400	Sickles .....	2
Benches .....	151	Doctor's instruments .....	1
Tables .....	57	Laundry boxes .....	8
Bedside tables .....	10	Saws and axes painted .....	7
Ice saws .....	5	Pictures .....	11
Cross-cut saws .....	20	Couches .....	5
Cues .....	384	Dressers .....	16
Bread trucks .....	4	Benches .....	88
Bread boxes .....	11	Garden boxes .....	161
Screen windows .....	2	Dinner wagons .....	2
Axe handles .....	26	Smokers' stands .....	3
Shovels .....	25	Drawers .....	6
Rakes .....	5	Cushions .....	36
Forks .....	4	Garden sash .....	73
Crutches .....	2	Poultry farm glass .....	10
Pot covers (laundry) .....	5	Reaches .....	2
Squeegees .....	36	Chesterfields .....	4
Wagons .....	6	Self-feeders .....	26
Wagon tongues .....	6	Vegetable crates .....	9
Stencilled trays .....	99	Step ladders .....	7
Bedside screens .....	7	Hammer handles .....	2
Shears .....	21	Saw horses .....	2
Nos. on serviette boxes .....	1 to 25	Desks .....	2
Scales .....	5	Knives for bread cutter .....	8
Card tables .....	8	Stools .....	5
Kitchen paddles .....	6	Sharpening book-binding knives .....	8

## NEW

Rubbers .....	11	Laundry boxes .....	11
Meat saws .....	2	Waste paper baskets .....	19
Mops .....	2	Small tables .....	1
Clothing boxes painted .....	11	Latrines .....	3
Snow scrapers .....	3	Cutlery boxes .....	2
School bus .....	2	Bread boards .....	1
Kettle lids .....	2	Garage frames .....	2
Round pieces, 18in. by ½in. ....	18	Fattening crates .....	18
Blocks .....	15	Notice boards .....	3
Bed baskets .....	3	Buttermilk troughs .....	18
Crutches (pairs) .....	1	Garden grass rakes .....	1
File boxes for desks .....	3	Signs for kitchen .....	3
Games .....	21	Benches cut down .....	32
Saw benches .....	2	Grain tanks .....	1
Cigarette makers .....	4	Air vents for vegets. ....	21
Blackboards .....	6	Hand carts .....	2
Bed blocks .....	20	Stools .....	6
Garden boxes .....	45	Bunkers, 6 ft. ....	2
Single trees .....	18	Filing shelves .....	2
Eveners .....	1	Picture hangers .....	30
Open feeders .....	7	Toys for Red Deer .....	42
Saw horses .....	3	Filing boards .....	8
Light wagons .....	1	Bedside box .....	1
Crib boards .....	17	Mortuary .....	1
Hand holds, 5in. ....	24		

## FOR STAFF

Children's chairs, doll's bed and sewing cabinet, dolls' beds, magazine racks, children's sets, child's rocker, stand, magazine table, child's rocker and table, re-touching board, child's rocker, sewing kits, small block, repair child's toy, book shelves, iron boards, hinges on stool, lock, box, repair door, boat and seat, piano stool, combination doors, table top, screen for windows, cat chair, shoe box, cedar boxes, frames, repair chair, repairs, repair dresser, rocking chair, chair repaired and frames, book stands.

## FOR BASKETRY DEPARTMENT

Tie rack .....	1	Child's tables .....	3
Magazine racks .....	9	Child's table stools .....	3
Stools for canning .....	14	Child's bed tables .....	3
Child's chairs .....	6	Child's book racks .....	3
Child's stools .....	6	Child's cedar books .....	3



*Sewing Room.*—Eight to twelve female patients are kept employed in this department. An additional seamstress was employed during the year, and practically all nurses' uniforms are now made in this department. In addition to this, the patients' dresses, night-gowns, etc., are made. An attempt has been made to provide more individuality in the clothing of the women.

*Stores.*—This department is kept very busy daily and, in spite of inadequate accommodation, they continue to do good work.

*Kitchens and Dining Rooms.*—Slight alterations have been made here in order to handle the garbage more satisfactorily. For an institution the size of this the kitchens are very small. The members of the culinary staff are to be commended for the work they do in spite of the marked overcrowding.

Cafeterias are now operating satisfactorily in both the male and female dining rooms. These have proved of great benefit, and the meals can be served much hotter than they ever could before. As well as this, patients are allowed a choice of certain dishes.

*Garden and Grounds.*—An occasional visit has been made to the hospital by Mr. Alex. Paton, Provincial Gardener, and our gardener, Mr. F. H. Mayled, has worked hard on the grounds. Recreation grounds have been laid out, many trees and borders planted, and it is planned to change the entrance to the hospital.

Throughout all seasons flowering plants and cut flowers are supplied to the wards and do much to brighten them.

*Farm.*—As usual the complete report of farm activities is being submitted under separate cover. Things are working smoothly in this department, and many patients are kept engaged in healthy occupation.

#### CONCLUSION

The co-operation of the officers and employees of this hospital have been particularly good, and great praise is due to all of them for the work that they have done. I sincerely believe that our patients are well cared for, and one rarely hears complaints from patients about members of the staff. This, indeed, is very exceptional in mental hospitals. I feel very gratified with the way in which things have gone on during the year.

I deeply appreciate the sympathetic co-operation that we have received from the Minister and Deputy Minister of Health. The interest and help of the Commissioner of Mental Institutions and Director of Mental Health cannot be overestimated. Without his aid it is felt that the progress made during the year would have been much less.

On the whole, the excellent co-operation from all sides has made it a pleasure to be the Superintendent of this hospital.

TABLE No. 1

## MOVEMENT OF PATIENT POPULATION DURING 1932

	Male.	Female.	Total.	Male.	Female.	Total.
In Residence Jan. 1, 1932 .....	.....	.....	.....	672	523	1195
Admissions:						
First Admissions:						
(a) Voluntary .....	69	27	96	.....	.....	.....
(b) Certificate .....	25	41	66	.....	.....	.....
(c) Warrant .....	150	68	218	.....	.....	.....
(d) Order .....	7	5	12	.....	.....	.....
(e) Transfers .....	6	4	10	.....	.....	.....
Re-admissions:						
(a) Voluntary .....	12	8	20	.....	.....	.....
(b) Certificate .....	6	4	10	.....	.....	.....
(c) Warrant .....	39	26	65	.....	.....	.....
(d) Order .....	1	.....	1	.....	.....	.....
Returned from Elopement .....	1	.....	1	.....	.....	.....
Returned from L. of A. ....	2	1	3	.....	.....	.....
	.....	.....	.....	318	184	502
				990	707	1697
Discharged during year:						
(a) As recovered .....	36	26	62	.....	.....	.....
(b) As improved .....	78	32	110	.....	.....	.....
(c) As unimproved .....	11	10	21	.....	.....	.....
(d) As without psychosis .....	56	19	75	.....	.....	.....
(e) As without psychosis .....	118	2	120	.....	.....	.....
(f) Transferred to other hospitals .....	2	.....	2	.....	.....	.....
(g) Elopement .....	23	6	29	.....	.....	.....
(h) Deaths .....	45	16	61	.....	.....	.....
	.....	.....	.....	369	111	480
In residence at end of year .....	621	596	1217	.....	.....	.....
On leave of absence or otherwise absent....	2	2	4	.....	.....	.....
	.....	.....	.....	.....	.....	.....
Total patients at end of year .....				623	598	1221

TABLE No. 2  
SHOWING THE PSYCHOSES IN THOSE ADMITTED DURING 1932

Psychoses		Male.	Female.	Total.
1	Traumatic psychoses .....	.....	.....	.....
2	Senile psychoses .....	8	6	14
3	Psychoses with cerebral arteriosclerosis.....	26	4	30
4	General paralysis .....	25	3	28
5	Psychoses with cerebral syphilis .....	1	.....	1
6	Psychoses with Huntington's Chorea.....	2	1	3
7	Psychoses with brain tumour .....	3	.....	3
8	Psychoses with other brain or nervous diseases:			
	(a) Cerebral embolism .....	1	.....	1
	(b) Chronic encephalitis .....	3	1	4
	(c) Brain tumour .....	1	.....	1
	(d) Brain lesion .....	.....	1	1
	(e) Symptomatic epilepsy .....	.....	1	1
9	Alcoholic psychoses:			
	(a) Delirium tremens .....	1	.....	1
	(b) Acute hallucinosis .....	3	2	5
10	Psychoses due to drugs and other exogenous toxins:			
	Unknown toxin .....	1	.....	1
11	Psychoses with pellagra .....	.....	.....	.....
12	Psychoses with other somatic diseases:			
	(a) Post-infectious .....	.....	1	1
	(b) Exhaustion delirium .....	1	.....	1
13	Manic-depressive psychoses:			
	(a) Manic type .....	16	14	30
	(b) Depressive type .....	9	15	24
	(c) Mixed .....	.....	2	2
	(d) Circular .....	1	.....	1
14	Involutional melancholia .....	3	5	8
15	Dementia praecox (Schizophrenia):			
	(a) Paranoid .....	36	16	52
	(b) Catatonic .....	44	34	78
	(c) Hebephrenic .....	5	6	11
	(d) Simple .....	3	3	6
	(e) Mixed .....	.....	1	1
16	Paranoia and Paranoid Conditions.....	7	4	11
17	Epileptic psychoses .....	12	7	19
18	Psychoneuroses and neuroses:			
	(a) Hysterical type .....	1	.....	1
	(b) Psychasthenic type .....	.....	2	2
	(c) Neurasthenic type .....	1	1	2
19	Psychoses with psychopathic personality.....	3	1	4
20	Psychoses with Mental Deficiency .....	16	17	33
21	Undiagnosed psychoses .....	12	4	16
22	Without psychoses:			
	(a) Epilepsy .....	3	1	4
	(b) Alcoholism .....	2	1	3
	(c) Drug Addiction .....	3	3	6
	(d) Psychopathic personality .....	1	.....	1
	(e) Mental deficiency .....	16	11	27
	(f) Slowly evolving Schizophrenia.....	1	.....	1
	(g) Psychoneuroses .....	1	2	3
	(h) Chronic encephalitis .....	1	1	2
	(i) Cerebral tumour .....	.....	1	1
	(j) Neurosyphilis .....	41	10	51
	(k) Suprasellar cyst .....	.....	1	1
	(l) Achalasia of the cardia .....	1	.....	1
	(m) Observation on criminal charge.....	1	.....	1
Total.....		316	183	499





22 Without psychoses:

... psychoses:																	
(a) Epilepsy	3	1	4	3	1	4											
(b) Alcoholism	2	1	3	1	...	...											
(c) Drug addiction	3	3	6	1	...	...											
(d) Psychopathic personality	1	...	...	...	...	...											
(e) Mental deficiency	16	11	27	15	8	23											
(f) Slowly evolving Schizophrenia	1	...	1	1	...	...											
(g) Psychoneuroses	1	2	3	1	1	1											
(h) Chronic encephalitis	1	1	2	1	1	2											
(i) Cerebral tumour	1	1	1	...	...	...											
(j) Neurosyphilis	41	10	51	20	3	23											
(k) Suprasellar cyst	1	1	...	...	...	...											
(l) Aclasia of the cardia	1	...	1	...	...	...											
(m) Observation on criminal charge.	1	...	1	...	...	...											
Total	316	183	499	178	61	239	106	92	198	20	18	38	8	11	20	4	...

## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 4  
AGES OF PATIENTS ADMITTED DURING 1932

Ages	First Admissions		Re-admissions		Total		
	Male	Female	Male	Female	Male	Female	Total
Under 15 years	3	....	....	....	3	....	3
15 to 19 years	12	12	....	2	12	14	26
20 to 24 "	19	22	5	4	24	26	50
25 to 29 "	40	24	5	3	45	27	72
30 to 34 "	36	20	10	4	46	24	70
35 to 39 "	30	19	3	7	33	26	59
40 to 44 "	25	17	8	3	33	20	53
45 to 49 "	23	8	7	5	30	13	43
50 to 54 "	22	11	9	5	31	16	47
55 to 59 "	21	3	5	3	26	6	32
60 to 64 "	14	4	2	2	16	6	22
65 to 69 "	4	3	3	....	7	3	10
70 and over	9	2	1	....	10	2	12
Total	258	145	58	38	316	183	499

TABLE No. 5  
NATIVITIES OF PATIENTS ADMITTED DURING 1932

Nativity.	Male Female Total			Nativity.	Male Female Total		
	Male	Female	Total		Male	Female	Total
Canada	102	70	172	Greece	1	....	1
England	40	22	62	Holland	....	1	1
Scotland	17	8	25	Hungary	5	2	7
Ireland	7	4	11	Italy	3	....	3
Wales	2	3	5	Japan	....	2	2
Newfoundland	2	1	3	Jugo-Slavia	3	....	3
New Zealand	....	1	1	Norway	5	6	11
India	2	....	2	Poland	19	10	29
British West Indies	1	....	1	Roumania	2	1	3
Austria	13	5	18	Russia	5	3	8
Belgium	1	2	3	Sweden	8	3	11
Czecho-Slovakia	3	2	5	Switzerland	1	1	2
Denmark	1	....	1	Ukraine	....	1	1
Finland	5	....	5	U.S.A.	59	30	89
France	1	....	1				
Germany	8	5	13	Total	316	183	499







TABLE No. 8  
RECORD OF DEATHS DURING 1932

Register		Age.	Time in Hospital.			Cause of Death.
No.	Sex.		Years.	Months.	Days.	
5433	M	56	2	2	14	General paralysis; aortic incompetence.
5085	M	59	1	1	12	General paralysis; erysipelas.
4129	M	36	2	8	1	General paralysis; hyaronephrosis.
5334	M	61	....	5	24	Senile exhaustion; cardiac failure.
5496	M	55	....	....	23	General paralysis; malaria.
5485	F	82	....	1	17	Hypostatic pneumonia; senile psychosis with exhaustion.
5514	M	48	1	1	....	Cardio-vascular syphilis; general paralysis.
5459	M	62	....	2	24	Cerebellar haemorrhage; arteriosclerosis.
4087	M	52	3	10	27	Huntington's chorea.
5423	M	52	1	4	20	Tuberculous broncho-pneumonia; general paralysis.
561	M	79	17	10	11	Broncho-pneumonia.
4550	M	50	2	7	26	General paralysis; status epilepticus, exhaustion.
3368	M	70	6	2	25	Chronic myocarditis and arteriosclerosis.
5465	M	61	....	8	6	Broncho-pneumonia; arteriosclerosis.
5181	M	29	1	4	21	Cerebral haemorrhage.
5365	M	53	....	6	1	Aortic stenosis, mitral stenosis, myocardial degeneration, decompensatio.
3457	M	34	6	3	28	Typhoid fever, toxæmia; myocardial degeneration.
158	F	80	21	4	5	Lobar pneumonia.
5782	M	64	....	1	5	Chronic endocarditis; mitral incompetence, syncope.
5268	F	25	1	3	19	Acute tuberculous broncho-pneumonia.
5800	M	62	....	1	....	Brain tumour.
5812	M	34	....	....	18	Broncho-pneumonia; brain tumour.
4828	M	72	2	6	6	Broncho-pneumonia with arteriosclerosis.
5851	M	41	....	....	4	Acute bronchitis.
18	M	57	21	2	13	Duodenal ulcer with obstruction.
5737	M	46	....	3	16	Frontal lobe tumour.
5746	M	65	....	3	12	Carcinoma of lungs and kidneys.
123	F	56	24	1	22	Pulmonary tuberculosis.
3881	M	54	4	8	4	Myosarcoma; metastases.
5651	M	51	....	....	9	Hypostatic pneumonia; Schizophrenia (Catatonic type).
2437	M	53	9	11	27	Epilepsy.
4880	M	68	2	....	9	Hypostatic pneumonia; senile psychosis.
3331	F	37	4	11	18	Pulmonary tuberculosis; Schizophrenia (paranoid type).
5681	M	57	....	....	8	Exhaustion due to Huntington's chorea; chronic nephritis.
5458	M	77	....	6	10	Hypostatic pneumonia; senile psychosis.
5100	M	70	1	5	13	Rheumatic carditis; mitral incompetence, decompensation.
1948	F	68	11	11	10	Rheumatic carditis; mitral stenosis with decompensation.
5734	F	63	....	....	1	Cerebral haemorrhage.
5726	M	43	....	....	18	Cellulitis of arm.
4547	M	65	3	....	16	Broncho-pneumonia; Huntington's chorea.
3952	M	61	4	4	2	Arteriosclerosis; exhaustion.
3347	M	24	6	3	....	Epilepsy with marked cortical changes (left).
5332	M	72	....	8	....	Broncho-pneumonia; epithelioma of lip.
1776	F	67	12	4	28	Tuberculous broncho-pneumonia.
5299	F	75	....	9	2	Senile psychosis; hyopstatic congestion.
5080	M	38	1	3	28	Tuberculous broncho-pneumonia; keratoder-mia blenorrhagia.
5577	M	55	....	....	30	Lobar pneumonia; cerebral haemorrhage.
2960	F	43	7	9	28	Chronic nephritis; cardiac decompensation.
1894	F	57	11	10	27	Cardiac decompensation, mitral stenosis.
2948	M	50	7	10	15	Acute peritonitis; rupture small intestine.
5592	F	37	....	1	....	Malaria with acute necrosis of liver; general paralysis.
5457	M	52	....	4	27	Broncho-pneumonia, general paralysis, and cardio-vascular syphilis.
5448	F	28	....	5	9	Haemorrhage from oesophagus and arch of aorta; swallowing spoon.
377	F	36	18	11	10	Typhoid fever, exhaustion.
5883	M	36	....	1	13	General paralysis.
5682	F	50	....	6	21	Chronic nephritis, arteriosclerosis.
5119	M	39	1	10	25	Tuberculous broncho-pneumonia; pulmonary tuberculosis.
5949	M	54	....	....	8	Broncho-pneumonia; cerebral tumour.
5947	M	50	....	....	12	Broncho-pneumonia.
5689	M	66	....	6	28	Lung abscess with arteriosclerosis complicating.

TABLE No. 9  
PLACE OF RESIDENCE AT TIME OF COMMITTAL, 1932

Place.	Male	Female	Total	Place.	Male	Female	Total
Alberta Beach .....	1	...	1	Hillsdown .....	1	...	1
Arbutus .....	...	1	1	Hines Creek .....	...	2	2
Ardley .....	...	1	1	Holden .....	1	...	1
Ardmore .....	1	...	1	Homoglen .....	...	1	1
Arrowwood .....	1	...	1	Hope Valley .....	...	1	1
Ashmont .....	1	...	1	Hussar .....	1	...	1
Athabasca .....	2	...	2	Iddesleigh .....	1	...	1
Banff .....	...	1	1	Innisfail .....	3	1	4
Barons .....	1	...	1	Innisfree .....	1	1	2
Beaumont .....	1	1	2	Irricana .....	1	...	1
Beauvallon .....	1	...	1	Jarvie .....	...	1	1
Bellevue .....	...	1	1	Judah .....	...	1	1
Bentley .....	1	...	1	Kelsey .....	1	...	1
Big Bay .....	1	...	1	Lacombe .....	7	1	8
Big Valley .....	1	...	1	LaGlac .....	...	1	1
Black Diamond .....	...	1	1	Lathrop .....	...	1	1
Blackie .....	...	1	1	Lavoy .....	1	1	2
Blairmore .....	1	...	1	Legal .....	1	...	1
Bluffton .....	...	1	1	Leduc .....	...	1	1
Bonnyville .....	2	1	3	Leicester .....	1	...	1
Brant .....	1	...	1	Leslieville .....	1	1	2
Brownvale .....	...	1	1	Lethbridge .....	14	10	24
Burstall (Sask.) .....	...	1	1	Lloydminster .....	1	1	2
Calgary .....	61	35	96	Lousana .....	2	...	2
Cadogan .....	1	...	1	Lomond .....	...	1	1
Calmar .....	1	...	1	Lucky Strike .....	...	1	1
Camrose .....	3	...	3	Lyalta .....	...	1	1
Canmore .....	...	1	1	Mackay .....	...	1	1
Carstairs .....	...	1	1	Mannville .....	1	...	1
Castor .....	2	1	3	Maple Leaf .....	...	1	1
Cereal .....	...	1	1	Mayerthorpe .....	1	...	1
Champion .....	...	1	1	Mayton .....	...	1	1
Cherhill .....	...	1	1	Meadowbrook .....	1	...	1
Chinook .....	1	...	1	Medicine Hat .....	1	3	4
Claresholm .....	3	...	3	Midnapore .....	...	2	2
Clear Hills .....	...	1	1	Millet .....	1	...	1
Clive .....	...	1	1	Mirror .....	1	...	1
Clover Bar .....	1	...	1	Morinville .....	...	1	1
Coalhurst .....	...	2	2	Mundare .....	1	1	2
Cochrane .....	...	1	1	Myrnam .....	...	2	2
Cold Lake .....	1	...	1	Nanton .....	1	1	2
Condor .....	1	...	1	Nevis .....	...	1	1
Coleman .....	...	1	1	Newcastle .....	1	...	1
Conklin .....	1	...	1	New Norway .....	2	...	2
Conrich .....	1	...	1	Nordegg .....	1	...	1
Coronation .....	1	1	2	North Star .....	1	...	1
Craigmyle .....	...	2	2	Notikewin .....	1	...	1
Crooked Creek .....	1	...	1	Ochaton .....	1	1	2
Crossfield .....	...	1	1	Olds .....	2	...	2
Czar .....	1	...	1	Onion Lake .....	2	...	2
Dalemead .....	1	...	1	Onoway .....	1	...	1
Daysland .....	1	1	2	Passburg .....	1	...	1
Deadwood .....	1	...	1	Peace River .....	...	1	1
Delburne .....	1	...	1	Peavine .....	1	...	1
Delia .....	...	1	1	Pembina .....	1	...	1
De Winton .....	...	1	1	Perryvale .....	1	...	1
Didsbury .....	2	...	2	Phillips .....	1	...	1
Dina .....	...	1	1	Ponoka .....	3	2	5
Dodds .....	1	...	1	Prosperity .....	1	...	1
Drumheller .....	4	...	4	Provost .....	1	...	1
Duhamel .....	1	...	1	Rabbit Hill .....	...	1	1
Duvernay .....	1	...	1	Raymond .....	...	1	1
Edmonton .....	67	33	100	Red Deer .....	...	2	2
Earlie .....	1	...	1	Redlands .....	...	1	1
Edberg .....	1	...	1	Redwater .....	1	...	1
Eckville .....	1	...	1	Reno .....	1	...	1
Edson .....	2	1	3	Rimbey .....	1	1	2
Edwand .....	...	1	1	Rochester .....	1	...	1
Egremont .....	1	...	1	Rocky Mountain House ..	2	...	2
Elk Point .....	1	...	1	Rosedale .....	1	...	1
Enchant .....	...	1	1	Ryley .....	1	...	1
Eyremore .....	1	...	1	St. Edouard .....	...	1	1
Fernie (B.C.) .....	1	...	1	St. Lina .....	1	...	1
Fishburn .....	1	...	1	St. Paul .....	...	3	3
Foremost .....	...	1	1	St. Vincent .....	1	...	1
Fort St. John (B.C.) .....	1	...	1	Sangudo .....	1	...	1
Gadsby .....	1	...	1	Sexsmith .....	1	...	1
Gleichen .....	1	1	2	Shandro .....	...	1	1
Gilwood .....	1	...	1	Shepard .....	1	...	1
Goddard .....	1	...	1	Shonts .....	1	...	1
Gould .....	2	...	2	Smoky Lake .....	1	...	1
Grande Prairie .....	...	2	2	Spirit River .....	1	...	1
Halkirk .....	...	1	1	Standard .....	1	...	1
Hanna .....	1	1	2	Stanmore .....	...	1	1
Hardieville .....	1	1	2	Sterco .....	1	...	1
Hayter .....	...	1	1	Styal .....	1	...	1
High River .....	1	...	1	Sunnybrook .....	...	2	2
Hillcrest .....	...	1	1	Sunset Prairie (B.C.) .....	1	...	1

TABLE No. 9—Continued

Place.	Male	Female	Total	Place.	Male	Female	Total
Sylvan Lake .....	1	....	1	Vimy .....	1	....	1
Thorhild .....	1	1	2	Vulcan .....	1	....	1
Tofield .....	4	....	4	Warburg .....	....	1	1
Tomahawk .....	1	....	1	Warner .....	....	1	1
Toronto (Ontario) .....	1	....	1	Warspite .....	1	....	1
Travers .....	1	....	1	Waskatenau .....	3	1	4
Trout Lake .....	1	....	1	Wayne .....	4	....	4
Turner Valley .....	1	....	1	Webster .....	1	....	1
Two Hills .....	1	....	1	Wetaskiwin .....	3	1	4
Vancouver (B.C.) .....	2	....	2	Winfield .....	1	....	1
Vegreville .....	1	1	2	Wood River .....	....	1	1
Vermilion .....	....	2	2	Yates .....	1	....	1
Veteran .....	....	1	1				
Vilna .....	1	....	1				
				Total.....	316	183	499

## Provincial Mental Institute, Edmonton, Alberta

(W. J. McALLISTER, M.D., *Medical Superintendent*)

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The movement of population outward was again limited, but with the opening of the new service building in February we were enabled by the end of the year to admit an additional 124 patients, 118 being transfers from Ponoka. These new admissions increased our population to a total of 424 patients, but their admission did not alter our status to any appreciable extent. We still remain essentially a hospital for chronic patients, hence we cannot hope for any marked activity at any time along the lines of probation and discharge.

The three cases shown as transfers—Table No. I—were cases of pulmonary tuberculosis taken to the mental hospital at Ponoka for more adequate treatment.

*Health Services.*—The general health of our population has been remarkably good. There were no epidemics, few medical or surgical cases, and few accidents of a serious nature. Much of the credit for this excellent showing is due to Dr. Valens, Medical Officer, and all those other members of the staff, the nature of whose work brings them into intimate contact with the patients.

I would also draw your attention to the low mortality rate as shown in Table XIV. The three transfers, all of whom have since died, should also be considered in this table, for while actually off our roster of patients, the disease in each case was contracted prior to transfer to Ponoka.

*Therapy.*—Table III shows that all but 77 of the patients were employed in some capacity. Many, due to their mental state, are incapable of any really constructive work. Many others, however, are gainfully employed and are making a really valuable contribution towards institutional maintenance. We could go considerably farther in occupational therapy than we have, provided we were permitted sufficient staff to allow of additional "group" training and supervision.

*Dental Service.*—Dr. Heacock devoted a good deal of his time during the year towards prophylaxis and actual dental treatment of all those patients requiring such attention. This work has aided materially in maintaining the high standard of health previously mentioned.

*Special Services.*—Through the office of the Commissioner, the services of Dr. M. R. Levy were made available for examination of the eye, ear, nose and throat. We already have a number of cases requiring an early check-up on possible refractive errors and other conditions involving the special sense organs, and the initiation of this consultant service should prove an additional aid towards our efforts to maintain an adequate standard of medical service within the institution.



*Nursing Service (Sick Ward).*—This is inadequate, but I cannot see that much can be done without a complete reorganization and the introduction of female nursing staff.

*Institutional Needs.*—No action so far has been taken to provide outdoor accommodation for our more or less invalid type of patient.

We are now filled to capacity. Any noted increase in admissions will result in a state of "overcrowding," a condition which should be avoided, and only resorted to as an emergency.

TABLE No. 1  
MOVEMENT OF INSANE POPULATION

	Males	Females	Total
Patients on Books Jan. 1st, 1932:			
(a) In Hospital .....	316	.....	316
(b) On Probation .....	.....	.....	.....
Total.....	316	.....	316
Admissions during year:			
(a) First Admissions .....	4	.....	4
(b) Readmissions .....	2	.....	2
(c) Transfers .....	118	.....	118
Total.....	124	.....	124
Total Received during year:			
(a) Transfers .....	118	.....	118
(b) Readmissions .....	2	.....	2
(c) By Warrant .....	4	.....	4
(d) By Voluntary Application .....	.....	.....	.....
Total.....	124	.....	124
Total on Books during year.....	440	.....	440
Discharged during year:			
(a) As Recovered .....	.....	.....	.....
(b) As Improved .....	3	.....	3
(c) As Unimproved .....	3	.....	3
(d) Without Psychoses .....	.....	.....	.....
(e) Transfers .....	3	.....	3
(f) Died during year .....	7	.....	7
Total.....	16	.....	16
Patients on Books end of Year:			
(a) In Hospital .....	424	.....	424
(b) On Probation .....	.....	.....	.....
Total.....	424	.....	424
Total Admitted since opening .....	597	.....	597
Total Discharged since opening .....	120	.....	120
Total Died since opening .....	59	.....	59

TABLE No. 2  
NUMBER OF OFFICERS AND EMPLOYEES.

	Males	Females	Total			
Medical Superintendent ..	1	.....	1	Social Workers .....	.....	.....
Medical Officer .....	1	.....	1	Teachers .....	.....	.....
Dentist .....	1	.....	1	Occupational Therapy..	1	1
Administrative Asst. ....	1	.....	1	Kitchen and Bakery....	3	3
Bursar .....	1	.....	1	Laundry .....	1	2
Storekeeper .....	1	.....	1	Gardeners & Assistants	3	3
Stenographer .....	.....	1	1	Engineers & Mechanics	9	9
Night Supervisor .....	1	.....	1	Other Male Employees	7	7
Graduate Nurses .....	.....	.....	.....	Other Female Em-	.....	.....
Other Female Nurses .....	.....	.....	.....	ployees .....	.....	.....
Male Attendants .....	42	.....	42	Total.....	73	2 75

## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 3  
PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS

	Males	Females	Total
Patients Insane .....	407	.....	407
Epileptic (not insane) .....	.....	.....	.....
Mental Deficiency (not insane) .....	17	.....	17
Alcoholics (not insane) .....	.....	.....	.....
Drug Addicts (not insane) .....	.....	.....	.....
Neurosyphilitics (not insane) .....	.....	.....	.....
All Other Types .....	.....	.....	.....
Total Population.....	424	.....	424
Industrial Workers .....	44	.....	44
Garden Workers .....	73	.....	73
Internal Workers .....	212	.....	212
External Workers (Farm, etc.) .....	18	.....	18
Doing no Work .....	77	.....	77
Total Population.....	424	.....	424

TABLE No. 4  
NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females	Total		Males	Females	Total
Canada .....	135	.....	135	Japan .....	2	.....	2
Australia .....	1	.....	1	Norway .....	18	.....	18
Austria .....	31	.....	31	Poland .....	1	.....	1
Belgium .....	3	.....	3	Roumania .....	4	.....	4
China .....	3	.....	3	Russia .....	20	.....	20
Denmark .....	5	.....	5	Scotland .....	20	.....	20
England .....	52	.....	52	Sweden .....	10	.....	10
Finland .....	3	.....	3	Switzerland .....	3	.....	3
France .....	2	.....	2	United States .....	55	.....	55
Germany .....	10	.....	10	Wales .....	3	.....	3
Holland .....	2	.....	2	Other Countries .....	12	.....	12
Hungary .....	1	.....	1	Unascertained .....	13	.....	13
Ireland .....	10	.....	10				
Italy .....	5	.....	5	Total.....	424	.....	424

TABLE No. 5  
CITIZENSHIP OF PATIENTS IN RESIDENCE

	Males	Females	Total
Citizen by Birth .....	135	.....	135
Citizen Naturalization .....	17	.....	17
Aliens .....	179	.....	179
Unascertained .....	7	.....	7
British Birth Out-Canada .....	86	.....	86
Total.....	424	.....	424

TABLE No. 6  
DENTAL REPORT

	Males	Females	Total
Patients Examined .....	314	.....	314
Patients Treated .....	186	.....	186
Prophylactic Treatments .....	133	.....	133
Fillings .....	89	.....	89
Extractions .....	119	.....	119
New Dentures .....	4	.....	4
Dentures Repaired .....	2	.....	2

TABLE No. 7  
AGE AT ADMISSION AND PRINCIPAL PSYCHOSES

Psychoses	Total		Under 15 yrs.		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1 Traumatic .....	...	12	...	...	...	...	...	...	...	...	...	...	...	...
2 Senile .....	12	...	...	...	...	...	...	...	...	...	...	...	...	...
3 Cerebral Arteriosclerosis .....	7	7	...	...	...	...	...	...	...	...	...	...	...	...
4 General Paralysis .....	16	16	...	...	...	...	1	1	1	1	2	2	2	2
5 With Cerebral Syphilis .....	1	1	...	...	...	...	...	...	...	...	...	...	...	...
6 With Huntington's Chorea .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7 With Brain Tumor .....	...	5	...	...	2	2	1	1	...	...	...	...	...	...
8 With Other Brain Diseases .....	5	5	...	...	...	...	...	...	...	...	...	...	...	...
9 Alcoholic .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10 Due to Drugs .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11 With Pellagra .....	2	2	1	1	...	...	...	...	...	...	...	...	...	...
12 With Other Somatic Diseases .....	22	22	1	1	1	1	...	...	...	...	5	5	1	1
13 Manic Depressive .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14 Involution Melancholia .....	1	1	...	...	...	...	...	...	...	...	...	...	...	...
15 Dementia Praecox .....	234	234	1	1	9	9	42	42	59	59	52	52	30	30
16 Paranoia and Paranoid Conditions .....	60	60	...	...	...	...	2	2	2	2	4	4	5	5
17 Epileptic Psychoses .....	11	11	...	...	...	...	...	...	4	4	1	1	2	2
18 Psychoneuroses and Neuroses .....	1	1	...	...	...	...	...	...	1	1	...	...	...	...
19 With Psychopathic Personality .....	4	4	...	...	2	2	5	5	1	1	7	7	2	2
20 With Mental Deficiency .....	24	24	1	1	...	...	...	...	4	4	...	...	...	...
21 Undiagnosed Psychoses .....	2	2	...	...	2	2	1	1	4	4	3	3	3	3
22 Without Psychoses .....	17	17	1	1	...	...	...	...	...	...	...	...	...	...
Total.....	424	424	4	4	16	16	52	52	76	76	76	76	45	45

TABLE No. 7a  
AGE OF ADMISSION AND PRINCIPAL PSYCHOSES

	Psychoses	40 to 44		45 to 49		50 to 54		55 to 59		60 to 64		65 to 69		70 & over		Unascertained			
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1	Traumatic	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Senile	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Cerebral Arteriosclerosis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	General Paralysis	4	...	4	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...
5	Cerebral Syphilis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Huntington's Chorea	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Brain Tumour	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Other Brain Diseases	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...
9	Alcoholic	...	...	...	2	2	1	1	...	...	...	...	...	...	...	...	...	...	...
10	Due to Drugs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Pellagra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	Somatic Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	Manic Depressive	2	...	2	2	2	1	1	6	6	2	2	2	...	1	...	...	...	...
14	Involutional Melancholia	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	Dementia Praecox	15	...	15	14	...	5	5	1	1	1	1	1	...	...	...	...	...	...
16	Paranoia or Paranoid Conditions	13	...	13	9	...	15	15	6	6	4	4	2	2	...	...	...	...	...
17	Epileptic	1	...	1	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...
18	Psychoneuroses	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Psychopathic Personality	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	Mental Deficiency	2	...	2	...	2	...	...	1	1	...	...	...	...	...	...	...	...	...
21	Undiagnosed	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	Without Psychoses	1	...	1	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...
Total		43	...	43	34	...	28	28	18	18	9	...	7	...	10	...	6	...	6



TABLE No. 8  
DEGREE OF EDUCATION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

	Psychoses	Total		Illiterate		Reads and Writes		Common School		High School		University		Unascertained	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	Traumatic .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Senile .....	12	...	1	...	5	...	4	...	2	...	...	...	...	...
3	Cerebral Arteriosclerosis .....	7	...	...	...	3	...	1	...	1	...	...	...	...	...
4	General Paralysis .....	16	...	1	...	8	...	5	...	2	...	...	...	2	...
5	With Cerebral Syphilis .....	1	...	...	...	1	...	...	...	...	...	...	...	...	...
6	With Huntington's Chorea .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	With Brain Tumour .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	With Other Brain Diseases .....	5	...	...	...	2	...	3	...	...	...	...	...	...	...
9	Alcoholic .....	5	...	1	...	2	...	...	...	...	...	1	...	1	...
10	Due to Drugs .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	With Pellagra .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	With Other Somatic Diseases .....	2	...	...	...	1	...	1	...	...	...	...	...	...	...
13	Manic Depressive .....	22	...	...	...	5	...	13	...	3	...	...	...	1	...
14	Involuntary Melancholia .....	1	...	...	...	...	...	1	...	...	...	...	...	...	...
15	Dementia Praecox .....	234	...	14	...	105	...	76	...	8	...	1	...	30	...
16	Paranoia and Paranoid Conditions .....	60	...	4	...	28	...	18	...	3	...	...	...	7	...
17	Epileptic Psychoses .....	11	...	3	...	3	...	3	...	...	...	...	...	2	...
18	Psychoneuroses and Neuroses .....	1	...	...	...	1	...	...	...	...	...	...	...	...	...
19	With Psychopathic Personality .....	4	...	...	...	2	...	2	...	...	...	...	...	...	...
20	With Mental Deficiency .....	24	...	3	...	9	...	8	...	1	...	...	...	3	...
21	Undiagnosed Psychoses .....	2	...	...	...	...	...	1	...	1	...	...	...	...	...
22	Without Psychoses .....	17	...	5	...	6	...	2	...	...	...	...	...	4	...
Total.....		424	...	32	...	181	...	138	...	21	...	2	...	50	...
		424	...	32	...	181	...	138	...	21	...	2	...	50	...

TABLE No. 9  
ENVIRONMENT OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

Psychoses		Total			2,500 and over			Urban			Rural			Unascertained		
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1	Traumatic .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Senile .....	12	...	12	4	...	4	...	...	...	8	...	...	...	...	8
3	Cerebral Arteriosclerosis .....	7	...	7	2	...	2	...	...	...	5	...	...	...	...	5
4	General Paralysis .....	16	...	16	7	...	7	...	...	...	9	...	...	...	...	9
5	With Cerebral Syphilis .....	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...
6	With Huntington's Chorea .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	With Brain Tumour .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	With Other Brain Diseases .....	5	...	5	3	...	3	...	...	...	1	...	...	1	...	1
9	Alcoholic .....	5	...	5	3	...	3	...	...	...	2	...	...	...	...	2
10	Due to Drugs .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	With Pellagra .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	With Other Somatic Diseases .....	2	...	2	...	...	...	...	...	...	2	...	...	...	...	2
13	Manic Depressive .....	22	...	22	6	...	6	...	...	...	16	...	...	...	...	16
14	Involutional Melancholia .....	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...
15	Dementia Praecox .....	234	...	234	52	...	52	...	...	...	160	...	...	...	...	22
16	Paranoia and Paranoid Conditions .....	60	...	60	12	...	12	...	...	...	46	...	...	...	...	2
17	Epileptic Psychoses .....	11	...	11	2	...	2	...	...	...	8	...	...	...	...	1
18	Psychoneuroses and Neuroses .....	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...
19	With Psychopathic Personality .....	4	...	4	3	...	3	...	...	...	1	...	...	...	...	...
20	With Mental Deficiency .....	24	...	24	3	...	3	...	...	...	20	...	...	...	...	1
21	Undiagnosed Psychoses .....	2	...	2	...	...	...	...	...	...	2	...	...	...	...	2
22	Without Psychoses .....	17	...	17	5	...	5	...	...	...	9	...	...	...	...	3
Total.....		424	...	424	104	...	104	...	...	104	290	...	290	30	...	30

TABLE No. 10  
ECONOMIC CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

Psychoses	Total			Dependent			Living on Daily Earnings			Comfortable, Ample for four Months			Unascertained		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1 Traumatic .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2 Senile .....	12	...	12	6	...	6	3	...	3	2	...	2	1	...	1
3 Cerebral Arteriosclerosis .....	7	...	7	4	...	4	...	...	...	3	...	3	...	...	...
4 General Paralysis .....	16	...	16	10	...	10	3	...	3	2	...	2	1	...	1
5 With Cerebral Syphilis .....	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...
6 With Huntington's Chorea .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7 With Brain Tumour .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8 With Other Brain Diseases .....	5	...	5	3	...	3	1	...	1	1	...	1	...	...	...
9 Alcoholic .....	5	...	5	2	...	2	2	...	2	1	...	1	...	...	...
10 Due to Drugs .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11 With Pellagra .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12 With Other Somatic Diseases .....	2	...	2	1	...	1	...	...	...	...	...	...	...	...	...
13 Manic Depressive .....	22	...	22	7	...	7	14	...	14	1	...	1	...	...	...
14 Involutional Melancholia .....	1	...	1	1	...	1	...	...	...	...	...	...	...	...	...
15 Dementia Praecox .....	234	...	234	64	...	64	150	...	150	5	...	5	15	...	15
16 Paranoia and Paranoid Conditions .....	60	...	60	19	...	19	38	...	38	3	...	3	...	...	...
17 Epileptic Psychoses .....	11	...	11	9	...	9	1	...	1	1	...	1	...	...	...
18 Psychoneuroses and Neuroses .....	1	...	1	...	...	...	1	...	1	...	...	...	...	...	...
19 With Psychopathic Personality .....	4	...	4	2	...	2	2	...	2	...	...	...	...	...	...
20 With Mental Deficiency .....	24	...	24	8	...	8	14	...	14	2	...	2	...	...	...
21 Undiagnosed Psychoses .....	2	...	2	2	...	2	...	...	...	...	...	...	...	...	...
22 Without Psychoses .....	17	...	17	15	...	15	1	...	1	1	...	1	...	...	...
Total.....	424	...	424	154	...	154	230	...	230	23	...	23	17	...	17

TABLE No. 11  
USE OF ALCOHOL BY FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

		Psychoses				Total		Abstinent.		Temperate.		Intemperate.		Unascertained.	
		M.	F.	T.	M.	F.	T.	M.	F.	M.	F.	M.	F.	M.	F.
1	Traumatic .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Senile .....	12	...	12	...	2	2	...	6	...	2	...	2	...	2
3	Cerebral Arteriosclerosis .....	7	...	7	...	...	...	...	4	...	1	...	2	...	2
4	General Paralysis .....	16	...	16	...	...	...	...	14	...	1	...	2	...	2
5	With Cerebral Syphilis .....	1	...	1	...	1	1	...	...	...	...	...	...	...	...
6	With Huntington's Chorea .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	With Brain Tumour .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	With Other Brain Diseases .....	5	...	5	...	...	...	...	3	...	1	...	1	...	1
9	Alcoholic .....	5	...	5	...	...	...	...	...	...	5	...	5	...	...
10	Due to Drugs .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	With Pellagra .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	With Other Somatic Diseases .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	Manic Depressive .....	2	...	2	...	1	1	...	1	...	...	...	...	...	...
14	Involitional Melancholia .....	22	...	22	...	2	2	...	12	...	3	...	5	...	5
15	Dementia Praecox .....	1	...	1	...	...	...	...	...	...	1	...	...	...	...
16	Paranoia and Paranoid Conditions .....	234	...	234	...	23	23	...	142	...	17	...	52	...	52
17	Epileptic Psychoses .....	60	...	60	...	7	7	...	35	...	13	...	5	...	5
18	Psychoneuroses and Neuroses .....	11	...	11	...	2	2	...	8	...	1	...	1	...	1
19	With Psychopathic Personality .....	1	...	1	...	...	...	...	1	...	...	...	...	...	...
20	With Mental Deficiency .....	4	...	4	...	1	1	...	2	...	...	...	1	...	1
21	Undiagnosed Psychoses .....	24	...	24	...	5	5	...	12	...	5	...	2	...	2
22	Without Psychoses .....	2	...	2	...	...	...	...	1	...	1	...	...	...	...
	Total .....	17	...	17	...	6	6	...	7	...	...	...	4	...	4
	Total .....	424	...	424	...	50	50	...	247	...	50	...	77	...	77



TABLE No. 12  
MARITAL CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

	Psychoses	Total		Single.		Married.		Widowed.		Separated.		Divorced.		Unascertained.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	Traumatic .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Senile .....	12	...	...	5	...	5	...	1	...	4	...	1	...	1
3	Cerebral Arteriosclerosis .....	7	...	...	5	...	5	...	1	...	1	...	...	...	...
4	General Paralysis .....	16	...	...	4	...	4	...	12	...	...	...	...	...	...
5	With Cerebral Syphilis .....	1	...	...	...	...	...	...	1	...	...	...	...	...	...
6	With Huntington's Chorea .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	With Brain Tumour .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	With Other Brain Diseases .....	5	...	...	3	...	2	...	2	...	...	...	...	...	...
9	Alcoholic .....	5	...	...	1	...	4	...	4	...	...	...	...	...	...
10	Due to Drugs .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	With Pellagra .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	With Other Somatic Diseases .....	2	...	...	1	...	1	...	1	...	...	...	...	...	...
13	Manic Depressive .....	22	...	...	8	...	11	...	2	...	2	...	...	...	1
14	Involuntary Melancholia .....	1	...	...	1	...	1	...	...	...	...	...	...	...	...
15	Dementia Praecox .....	234	...	...	192	...	31	...	1	...	1	...	2	...	8
16	Paranoia and Paranoid Conditions .....	60	...	...	36	...	18	...	1	...	3	...	2	...	...
17	Epileptic Psychoses .....	11	...	...	7	...	4	...	...	...	...	...	...	...	...
18	Psychoneuroses and Neuroses .....	1	...	...	1	...	...	...	...	...	...	...	...	...	...
19	With Psychopathic Personality .....	4	...	...	4	...	...	...	...	...	...	...	...	...	...
20	With Mental Deficiency .....	24	...	...	22	...	1	...	1	...	1	...	...	...	...
21	Undiagnosed Psychoses .....	2	...	...	1	...	1	...	...	...	...	...	...	...	...
22	Without Psychoses .....	17	...	...	15	...	2	...	2	...	...	...	...	...	...
Total.....		424	...	306	...	90	...	10	...	3	...	5	...	10	10



TABLE No. 15  
RELIGION OF PATIENTS IN RESIDENCE

	M.	F.	T.
Baptists .....	14	....	14
Episcopalians .....	48	....	48
Jews .....	3	....	3
Presbyterians .....	47	....	47
Roman Catholics .....	106	....	106
United Church .....	31	....	31
Other Denominations .....	137	....	137
Unascertained .....	38	....	38
Total.....	424	....	424

TABLE No. 16  
OCCUPATION OF PATIENTS IN RESIDENCE

	M.	F.	T.
Professional .....	2	....	2
Commercial .....	13	....	13
Agricultural .....	133	....	133
Mechanics, Outdoor .....	31	....	31
Mechanics, Sedentary .....	23	....	23
Domestic Service .....	3	....	3
Education .....	2	....	2
Miners, Engineers, Rail .....	20	....	20
Labourers .....	143	....	143
No Occupation .....	10	....	10
Unascertained .....	44	....	44
Total.....	424	....	424

## Provincial Training School, Red Deer

(D. L. McCULLOUGH, M.D., *Acting Medical Superintendent*)

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### STATISTICAL SUMMARY.

Reference to Table 1 shows that we began and ended the year with 190 patients in residence. There were on our books on January 1st, 1932, 102 males and 91 females. Our nominal capacity throughout the year was 200 beds, but for various reasons we were temporarily below capacity, both at the beginning and end of the year. During the year there were 25 admissions, exactly balanced by 7 deaths, 7 transfers, and 11 cases discharged on parole. This latter number is the largest in the history of the training school, and shows an increasing tendency towards a freer movement of population which has been present for the past three years.

There were 51 new applications for admission, 22 males and 29 females. After deleting from the lists the names of those since admitted, who have left the Province, died, etc., there are now 219 cases awaiting admission as against 182 at the end of 1931.

Twenty suspects were reported, 8 males and 12 females, bringing the total number, after correcting the table as above, to 544, as against 533 at the end of 1931.

The number of defectives in institutions on December 31st, 1932, was 263—190 in Red Deer, 56 in Ponoka, and 17 in Oliver. If to these numbers are added the 61 discharged from Red Deer from 1923 to 1932 inclusive, the 219 awaiting admission and the 544 suspects reported, the resultant figures—1,093—give some idea of the extent of the problem of the feeble-minded in the Province of Alberta.

### HEALTH OF PATIENTS.

Throughout the year the health of the patients was, on the whole, good. In March and April there were 39 cases of chicken-pox, one of severe type. One case of typhoid occurred, again, as in the previous year, in a previously immunized patient. The source of infection could not be determined. Our milk is pasteurized, and careful search revealed no carriers amongst patients or staff who had previously had typhoid. All patients and staff, a total of 250, were re-inoculated, and in future a yearly reinoculation of the entire institution is planned. A severe outbreak of influenza occurred in November, and bronchopneumonia caused two deaths. At the height of the epidemic 48 patients and 9 members of the staff were confined to bed in addition to the usual cripples and invalids, and it was only through the splendid efforts of both patients and staff, who escaped or were lightly attacked, that the sick were looked after and the essential services of the Training School maintained without calling in outside help. In December and early in January of the present year there were 4 cases of diphtheria, with two deaths. Dr. Sommerville, taking Dr. Little's place at the full



time health unit, Red Deer, rendered very helpful service in "Schick-ing" all patients and staff, numbering 250 in all. All those found susceptible were immunized with antitoxin and toxoid. Two carriers were found and isolated till free from infection. The immunization of all patients against diphtheria and typhoid commences as a routine procedure the day they are admitted. There were a number of cases of acute middle ear infection, especially during the influenza epidemic, and two mastoid operations were necessary despite early paracentesis of the drum.

There were seven deaths during the year. One due to fracture of the skull from an accidental fall, one due to cellulitis of the neck following perichondritis and necrosis of the thyroid cartilage, one due to status epilepticus, two to influenzal bronchopneumonia, one to diphtheria, and one to acute intestinal obstruction.

Extensive use was made of the ultra violet machine for two cases of cervical adenitis, two pulmonary tuberculosis suspects, and some skin and other conditions. Most of the patients felt better in themselves for the treatment, but tangible results were few.

Full courses of antisiphilic treatment were given to five patients with positive Wassermans.

Dr. Heacock, departmental dentist, made a complete survey of all patients in March and again in October, completing 100 fillings, 170 extractions with 14 general anaesthetics, and one complete extraction under general anaesthetic, and 176 prophylactic treatments. This work is very valuable, and greatly appreciated by the patients themselves. It results not only in greater comfort and better nutrition of the patients, but prevents a great deal of chronic and other ill-health, with consequent saving in medical and nursing effort and expenditure. All patients capable of caring for them are provided with tooth brushes and encouraged to use them daily.

Walks, outdoor games, skating, playground and other activities were again encouraged throughout the year, and the 90 children who attended the Sylvan Lake camp were greatly benefited, and came back sunburned and healthy.

#### PATIENTS' ACTIVITIES.

The policy which was adopted towards the end of 1931 of having female patients work in the various departments in rotation was further developed and extended. Each department has a definitely assigned number of girls. Changes are made monthly. Certain positions carry seniority, and are looked upon as promotion, such as waitress in staff dining room, nurse's assistant and domestic help. The staff in the various departments have supported the scheme very loyally, though when first introduced it meant for them more work and greater effort in the supervision and instruction of patients. The patients themselves, especially the higher grades, appreciate the increased opportunity for training, the greater variety in experience, the increased responsibility, and the influence carried by the senior posts. As a corollary to these changes, a monthly report for each department covering each patient's work, ability, temperament, etc., is being instituted, and should result in further progress towards the goal of the Training School—training for return to extra-institutional life. The organization of the working boys along similar lines is a much more

difficult problem, and it is very doubtful if anything worth while can be done with the limited number of attendants and the very nominal supervision possible at present. Results so far have been slight. At the end of the year 68 full time workers were employed on the various floors and in departments—31 males and 37 females—being 35% of the patient population. Considering the number of small children, school children, low grades, cripples, epileptics and other helpless types in the institution, this is a very creditable showing.

The Girl Guides met regularly during the year, under Miss Dewis as captain and Miss Rook as lieutenant. This movement has been a leavening influence entirely for good amongst the girls. Despite their limited abilities and imperfections of temperament and personality, they have been very enthusiastic. Membership increased from 8 at the beginning of the year to 18 at the end of the year, although there was a loss of 4 members discharged on parole. Six passed their second class tests, 5 received service badges, and a number at the end of the year were well on their way to winning proficiency badges in several subjects. A group of 14 spent a week at camp at Sylvan Lake in August with their leaders. Their work was not only approved of, but very favourably commented upon by the visiting member of the provincial executive.

In September Mr. Ward and Miss Macdougall got together two groups of boys for scout and cub work, and the meetings held regularly each week are greatly enjoyed by the boys. At the end of the year 12 scouts and 22 cubs were enrolled, and have made good progress.

The matron and graduate nurse (Miss Holmes and Miss Carnochan) have repeated with larger groups (20 senior and 15 junior girls) the practical instruction given the previous year in elementary nursing and first aid, and it is surprising how much some of the girls have learned. It has made much of their daily routine work more interesting, improved their efficiency, given them some idea of the objects of cleanliness in their persons and surroundings, made them more considerate for the sick and ailing, and capable of looking after them and making them comfortable.

Except during July and August, Sunday school classes were held regularly throughout the year for both boys and girls, and are greatly looked forward to by all those capable of attending. There are five classes, all taken by members of the staff, and the average attendance is 65.

Great credit reflects on all those who have undertaken these personality and character building activities: guides, scouts, cubs, Sunday school, elementary nursing and first aid. I greatly appreciate the generous contribution which they have made voluntarily to the ideals of the Training School.

All year the school room and sense training room has been crowded to capacity, and excellent work has been done in both departments.

The senior and junior occupational groups under the teacher, Miss Walt, and the sense trainer, Miss Brown, and the basketry and carpentry class for the school boys under Miss Macdougall, have done good work increasing the industry, application and skill

of the workers besides affording them an hour of interesting relaxation and profitable companionship daily.

The usual display of articles was made at the Edmonton Exhibition and the Red Deer Fair. Sales were well up to average despite the depression.

Sports were held on May 24th and July 1st. These events are a great source of delight to the children, and are eagerly anticipated and diligently trained for. During July and August 90 boys and girls in groups of 12 to 14 at a time, attended camp at Sylvan Lake, on a site loaned by the Red Deer Rotary Club. As we have no camp site of our own, we may have to forego camp next year. If so, it will be a great disappointment to the children, besides depriving them of a much-needed physical change and mental stimulus. During the winter a number of patients' dances were held, with a masquerade at Hallowe'en and a concert at Christmas, put on by the school children trained and directed by Miss Brown. The Christmas tree was, as usual, a great success, though the number and quality of the presents sent by parents was much below that of previous years. A number of presents, chiefly toys, from the Provincial Mental Hospital at Ponoka, the Red Deer Rotary Club, Eaton's, and from some private individuals helped to make good the deficiency, and no child was without some little gift, however small.

Eighteen children were allowed home on visits during the summer months, and all, without exception, behaved well and gave no trouble. These holidays are encouraged as being good for the children, both physically and mentally; keeping the parents interested in them and paving the way for ultimate discharge. Many parents visited their children at the school during the year.

#### INSTITUTIONAL PROGRESS.

No new buildings were erected or extensions made, but much was done towards maintaining and improving the efficiency of the present buildings.

The water softener, which went into use for laundry and boiler room purposes on January 1st, has operated efficiently and given good service at a very moderate cost. Following a serious interruption in the water supply early in the year, changes were made in the supply line which enables us, if anything goes wrong with our reservoir, to draw direct from the city mains, or if anything goes wrong with the latter, to run for 24 hours or more on our reservoir. The advantage of this in case of fire is obvious. These changes involved a great deal of digging, tunnelling and other work in which a number of patients were profitably employed.

During the severe sleet storm in April the school was in total darkness for many hours; no bells could be rung, and it would have been impossible to sound the fire alarms. As a result of this experience, steps were taken to install a steam-driven electric generator, which has been in operation since Novembr. This makes us independent of outside interruptions, but as we are still connected with the city, we can draw on their line in case a short occurs in our own circuit. The installation of this generator necessitated many changes in the boiler room.



Many other smaller changes were made such as the replacement of the old hot water heater in the boiler room by a new and larger one; the alteration of the offices to provide a filing room; the rearrangement and alteration of certain rooms in the main building to give more light, accommodation for more beds and convenience to bathrooms for isolation, etc. The construction of landing platforms at the fire escape outlets made exit easier and safer for crippled and helpless patients.

The new section for twelve high grade girls opened at the end of 1931, and made available by transferring staff to what was formerly Dr. McAllister's suite, was completely filled by the admission of nine new patients in the early days of January. This section has been a valuable acquisition. It gives us a larger number of workers for the growing needs of the various floors and departments, consequent on the steadily increasing number of low grades. It provides accommodation for a type of case capable of training and returning to the community.

Approximately 11 acres of land were purchased from the city. This, with the 24 acres we already had and about 15 acres rented for grazing, gives us 50 acres. Four acres of the newly rented ground was broken and put into green feed, and seven acres of the newly purchased land broken. This will give a very welcome addition to the kitchen garden, which has been continuously cropped without rest or intermission since 1918, and is barely adequate for our increased needs.

#### DEPARTMENTAL ACTIVITIES.

The work of all departments is steadily increasing with the increasing number of patients. Loyalty and co-operation have marked the activities of all sections, especially in the training of patients.

In the laundry 286,660 articles were laundered, as against 255,489 in the previous year.

In the sewing room 2,758 articles were made and 38,371 repaired, as against 2,988 and 30,848 made and repaired in 1931. An electric darning machine run entirely by high grade girls has been a valuable addition, and has eliminated a great deal of tedious hand work.

In addition to pork, chicken and eggs valued at \$380, the farm produced the best crop of vegetables in the history of the institution with a nominal book value of \$2,103; 15,000 caragana seedlings were raised at the request of the Department, and are now ready for distribution to farmers when needed. The grounds were well cared for and, as usual, attracted many visitors during the summer months. A display of cut flowers and plants was exhibited at the Red Deer Horticultural Show in August.

#### STAFF ACTIVITIES.

The health of the staff, as a whole, has been excellent. No serious illnesses occurred and little time was lost.

Eleven changes occurred in the total public health staff of 42. Seven resigned (four to get married) and four were dismissed.

In the early months of the year a series of lectures on mental deficiency and some physical ailments were given by the medical



superintendent. In September a systematic course of instruction was commenced, using as text book the "Manual for Mental Deficiency Nurses," published by the Royal Medico-Psychological Association; lectures in the various subjects being given by the medical superintendent, and lectures, demonstrations and ward instruction in practical nursing by the matron and graduate nurse. Already the instruction given has resulted in greater interest in the children, more efficiency in the routine work, and a fuller appreciation of the standards, aims and ideals of the Training School.

The local branch of the Civil Service Association of Alberta, which has steadily increased in membership, held a number of very enjoyable socials during the winter and spring months and a number of picnics during the summer, which contributed to the happiness and *esprit de corps* of the staff. In matters affecting the institution the association has been both loyal and co-operative.

#### EUGENICS.

During the year 14 cases—8 males and 6 females—were presented to and approved by the Eugenics Board at the Training School in March, June and September. By sending all cases to the Red Deer Municipal Hospital for operation, transportation costs have been eliminated, the stay in hospital shortened, and the patients can enjoy having visitors from the Training School.

By the end of the year 45 cases—17 males and 28 females—had been presented to and approved of by the board, and 43—14 males and 28 females—sterilized. Two cases await the consent of parents. One was transferred to Ponoka before being sterilized. Fifteen of these cases have been discharged, and without exception favourable reports have been received of all. Two are now happily married and have good homes. In addition to the above, 13 female cases, already sterilized, have been admitted at various times to the Training School. Five of these have been discharged. Totalling both groups, there were 35 sterilized cases in residence at the end of the year, equal to 18.4% of our total population.

#### SOCIAL WORKER.

Mr. Kibblewhite, in Calgary, and Miss Starkie, in Edmonton, made follow-up reports on many of our discharged cases, including all those sterilized before discharge. They also made a number of social reports, and in other ways (meeting parents en route, obtaining special interviews with parents, etc.), helped us materially. In former years most of our applications came from the schools and through the public health nurses. An increasing number now come through the mental hygiene clinics, and I find the information there obtained a great help in determining for which section of the school the applicant is best suited.

#### CONCLUSION.

Turning to the general situation, the great majority of our applications for admission are for low grade, helpless and crippled children—the type of case that once admitted is generally here for life. With a low discharge rate and a relatively small death rate,

admissions are necessarily few and the applications accumulate. The only satisfactory solution is the provision of more accommodation for this type of patient, particularly of the infirmary type.

The situation is otherwise with regard to the high grade cases. There are relatively few large high grade girls or boys on our waiting lists. Yet, this is the type most suitable for industrial training and return to extra-institutional life, and the majority of our discharges are from this group. With relatively few applications and an active discharge list, it is becoming increasingly difficult to maintain this group at strength, and should we fail to do so increase in staff would be necessary.

Within the building itself we still have the school children, many of whom are high grade, sharing the main part of the second and third floors with the low and very low grades. We keep them separate as far as possible; they have meals apart, and when possible we move the older children to the cottage or the sections where the large girls are, but complete segregation of the two groups would be better for both.

TABLE No. 1

## MOVEMENT OF FEEBLE-MINDED POPULATION

Defectives on books of institution at January 1st, 1932: In the				M.	F.	T.
Provincial Training School .....				102	88	190
Total.....				102	88	190
Admissions:						
	M.	F.	T.			
1. First admission, voluntary .....	6	14	20			
2. Readmissions .....	2	2	2			
3. Court commitments .....	1	2	3			
Total number admitted during year				7	18	25
Total number of defectives on the books during the year..				109	106	215
Discharges during 1932 .....				2	9	11
Transfers to other institutions during 1932 .....				3	4	7
Died during 1932 .....				5	2	7
Total number of outgoing patients during 1932.....				10	15	25
Defectives on books of institution at Dec. 31st, 1932.....				99	91	190

TABLE No. 2

RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE  
AT DECEMBER 31, 1932

	In Residence	Percentage
Wards of the Province of Alberta .....	31	16.31 %
Wards of the Municipal Districts of Alberta.....	131	68.95 %
Wards of the Department of Municipal Affairs of Alberta	18	9.48 %
Private Cases in residence during 1932 .....	4	2.10 %
Wards of the Department of Pensions and Health, Ottawa..	2	1.05 %
Wards of the Dominion Government .....	1	.53 %
Responsibility not established .....	3	1.58 %
Total.....	190	

TABLE No. 3

## MENTAL STATUS OF FIRST ADMISSIONS AND READMISSIONS

Mental Status	First Admissions			Re-admissions			Total	
	M.	F.	T.	M.	F.	T.	M.	T.
Idiot .....	2	3	5	2	2	2	4	7
Imbecile .....	4	14	18	2	2	2	6	18
Moron .....	6	17	23	2	2	2	4	25
Total.....	6	17	23	2	2	2	4	25

TABLE No. 4

## NATIVITY OF ADMISSIONS AND OF PARENTS OF ADMISSIONS

Nativity	Patients			Parents of Male Patients			Parents of Female Patients		
	Males	Females	Total	Fathers	Mothers	Total	Fathers	Mothers	Total
Alberta .....	5	9	14	....	....	....	....	....	....
Other Provinces .....	2	3	5	2	2	4	3	3	6
England .....	....	1	1	2	2	2	2	1	3
Scotland .....	....	1	1	....	1	1	3	1	4
United States .....	....	2	2	1	1	2	....	1	1
Germany .....	....	1	1	....	1	1	2	2	4
Norway .....	....	....	....	....	....	....	1	1	2
Sweden .....	....	....	....	....	....	....	1	1	2
Russia .....	....	....	....	1	....	1	....	....	....
Roumania .....	....	....	....	....	1	1	....	....	....
Unascertained .....	....	1	1	1	1	2	6	8	14
Totals.....	7	18	25	7	7	14	18	18	36

TABLE No. 5

## CITIZENSHIP OF ADMISSIONS

	Male	Female	Total
Citizens by birth .....	5	11	16
Aliens .....	1	....	1
Citizenship unascertained .....	1	7	8
Total.....	7	18	25

TABLE No. 6(a)

## AGE OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

Age Group	Idiot			Imbecile			Moron			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1- 4 .....	....	....	....	....	....	....	1	....	1	1	....	1
5- 9 .....	....	....	....	1	....	1	....	....	....	1	....	1
10-14 .....	....	....	....	1	....	1	2	1	3	3	1	4
15-19 .....	....	....	....	....	2	2	2	8	10	2	10	12
20-24 .....	....	....	....	....	2	2	....	....	....	....	2	2
25-29 .....	....	....	....	....	....	....	2	2	....	....	2	2
30-34 .....	....	....	....	....	1	1	....	2	2	....	3	3
Totals.....	....	....	....	2	5	7	5	13	18	7	18	25

TABLE No. 6(b)

## AGE OF TOTAL POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

Age Group	Idiot			Imbecile			Moron			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1- 4 years .....	....	1	1	....	....	....	1	....	1	1	1	2
5- 9 years .....	....	....	....	2	....	2	....	4	4	2	4	6
10-14 years .....	8	9	17	11	5	16	7	4	11	26	18	44
15-19 years .....	14	12	26	9	8	17	10	7	17	33	27	60
20-24 years .....	9	7	16	4	10	14	3	4	7	16	21	37
25-29 years .....	4	3	7	9	4	13	....	2	2	13	9	22
30-34 years .....	3	3	6	1	2	3	....	4	4	4	9	13
35-39 years .....	1	....	1	1	1	2	1	....	1	3	1	4
40 years upward .....	....	....	....	....	1	1	1	....	1	1	1	2
Totals.....	39	35	74	37	31	68	23	25	48	99	91	190

TABLE No. 7

## ENVIRONMENT OF ADMISSIONS

Environment	Idiot			Imbecile			Moron			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Urban .....	....	....	....	1	1	2	1	5	6	2	6	8
Rural .....	....	....	....	1	4	5	4	8	12	5	12	17
Totals.....	....	....	....	2	5	7	5	13	18	7	18	25

TABLE No. 8

## RELIGION OF ADMISSIONS

Religion	Idiot			Imbecile			Moron			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
United Church .....	....	....	....	2	1	3	2	7	9	4	8	12
Anglican .....	....	....	....	....	....	....	1	2	3	1	2	3
Roman Catholic .....	....	....	....	....	1	1	....	1	1	....	2	2
Baptist .....	....	....	....	....	....	....	1	1	....	....	....	....
Lutheran .....	....	....	....	....	2	2	2	1	3	2	3	5
Nazarene .....	....	....	....	....	1	1	....	....	....	....	1	1
Unascertained .....	....	....	....	....	....	....	1	1	....	1	1	1

TABLE No. 9

## ECONOMIC CONDITION OF FAMILIES OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

Economic Condition	Idiot			Imbecile			Moron			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Dependent .....	....	....	....	....	2	2	....	5	5	....	7	7
Marginal .....	....	....	....	1	3	4	5	6	11	6	9	15
Comfortable .....	....	....	....	1	....	1	....	....	....	1	....	1
Unascertained .....	....	....	....	....	....	....	2	2	....	2	2	2
Totals.....	....	....	....	2	5	7	5	13	18	7	18	25

TABLE No. 10(a)

## DISCHARGES CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

Age Group	Idiot			Imbecile			Moron			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
10-14 years .....	....	1	1	....	....	....	....	....	....	....	1	1
15-19 years .....	....	....	....	....	1	1	....	4	4	....	5	5
20-24 years .....	....	....	....	....	....	....	1	1	2	1	1	2
25-29 years .....	....	....	....	1	....	1	....	1	1	1	1	2
30-34 years .....	....	....	....	....	1	1	....	....	....	....	1	1
Totals.....	....	1	1	1	2	3	1	6	7	2	9	11

TABLE No. 10(b)

## TRANSFERS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

Age Group	Idiot			Imbecile			Moron			Total		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
10-14 years .....	....	....	....	....	....	....	....	....	....	....	....	....
15-19 years .....	....	....	....	1	....	1	....	....	....	1	....	1
20-24 years .....	....	....	....	....	1	1	....	....	....	....	1	1
25-29 years .....	....	....	....	....	2	2	....	....	....	....	2	2
30-34 years .....	....	....	....	1	....	1	....	....	....	1	....	1
35-39 years .....	....	....	....	....	....	....	1	....	1	1	....	1
40-44 years .....	....	1	1	....	....	....	....	....	....	....	1	1
Totals.....	....	1	1	2	3	5	1	....	1	3	4	7

TABLE No. 11

## DEATHS

Causes of Death	Idiot			Imbecile			Age Years	Length of Time in Institution	
	M.	F.	T.	M.	F.	T.		Years	Months
Influenza .....	1	....	1	....	....	....	22	5	11
Bronchopneumonia .....	....	1	1	....	....	....	13	7	9
Status Epilepticus .....	....	1	1	....	....	....	12	3	7
Diphtheria .....	1	....	1	....	....	....	7	1	1
Fractured Skull .....	....	....	....	1	....	1	25	13	3
Intestinal Obstruction .....	1	....	1	....	....	....	21	13	3
Cellulitis of Neck .....	1	....	1	....	....	....	26	13	11
Totals.....	4	2	6	1	....	1	....	....	....

TABLE No. 12

## SOME OF THE TYPES IN RESIDENCE

Classification	Idiot			Imbecile			Moron			Total	Per- centage
	M.	F.	T.	M.	F.	T.	M.	F.	T.		
Infirmity Type .....	19	12	31	7	4	11	....	....	....	42	22.10 %
M.D. and Epileptic .....	18	11	29	3	1	4	2	4	6	39	20.50 %
M.D. and Psychopathic .....	....	....	....	1	1	2	3	....	3	5	2.63 %
M.D. and Prepsychotic .....	....	....	....	....	2	2	....	3	3	5	2.63 %
M.D. and Psychotic .....	....	....	....	....	....	....	....	2	2	2	1.05 %



TABLE No. 13  
APPLICANTS AWAITING ADMISSION

	Male	Female	Total
Applications dated prior to 1923.....	13	13	26
Applications dated 1923 .....	7	3	10
Applications dated 1924 .....	10	7	17
Applications dated 1925 .....	....	4	4
Applications dated 1926 .....	10	10	20
Applications dated 1927 .....	4	6	10
Applications dated 1928 .....	7	4	11
Applications dated 1929 .....	14	9	23
Applications dated 1930 .....	19	13	32
Applications dated 1931 .....	7	15	22
Applications dated 1932 .....	17	20	37
Total number of cases not admitted.....	108	104	212
Present whereabouts unknown .....	4	3	7
Total number of cases awaiting admission.....	112	107	219

TABLE No. 14  
REPORTED SUSPECTS

	Male	Female	Total
Suspects reported prior to 1923 .....	107	56	163
Suspects reported during 1923 .....	28	33	61
Suspects reported during 1924 .....	20	12	32
Suspects reported during 1925 .....	17	14	31
Suspects reported during 1926 .....	30	21	51
Suspects reported during 1927 .....	12	17	29
Suspects reported during 1928 .....	18	18	36
Suspects reported during 1929 .....	29	27	56
Suspects reported during 1930 .....	23	21	44
Suspects reported during 1931 .....	17	4	21
Suspects reported during 1932 .....	8	12	20
Total.....	309	235	544

TABLE No. 15  
SUMMARY OF REPORTED DEFECTIVES

	Male	Female	Total
In residence at Red Deer .....	99	91	190
Discharged, Paroled, etc. (1923-32) .....	32	29	61
Applicants (Table 13) .....	112	107	219
Suspects (Table 14) .....	309	235	544
Sex unascertained .....	....	....	6
In residence at Oliver .....	17	....	17
In residence at Ponoka .....	28	28	56
Totals.....	597	490	1,093

TABLE No. 16  
EUGENICS SUMMARY

	Male	Female	Total
Number of cases presented to Board.....	17	28	45
Number of cases approved by Board.....	17	28	45
Number of cases operated on .....	14	28	42
Cases sterilized prior to admission.....	....	13	13
Sterilized cases, paroled, etc. ....	5	15	20
Sterilized cases in residence—Totals.....	9	26	35

TABLE No. 17  
STAFF

	Male	Female	Total
Medical Superintendents .....	1	....	1
Bursars .....	1	....	1
Dentists, part time .....	1	....	1
Graduate Nurses .....	....	1	1
Other Nurses .....	....	14	14
Teachers of Grade Subjects .....	....	1	1
Teachers of Special Subjects .....	....	2	2
Matrons .....	....	1	1
Attendants .....	4	....	4
Social Workers, voluntary .....	1	1	2
Stenographers .....	....	1	1
Clerks .....	1	....	1
Kitchen Staff .....	....	3	3
Dining Room Staff .....	....	2	2
Maids .....	....	3	3
Laundry Room Staff .....	....	3	3
Sewing Room Staff .....	....	2	2
Gardeners .....	1	....	1
Farmers .....	1	....	1
Boiler Room Staff .....	6	....	6
Maintenance Staff .....	3	....	3
Total.....	20	34	54

## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 19

## SEWING ROOM

## SUMMARY OF ARTICLES MADE AND REPAIRED IN 1932

Quantity and Article	Quantity and Article.
67 Aprons, gingham.	14 Pillows.
64 Aprons, burlap.	310 Pillow slips.
18 Bandages, special.	28 Press and ironer covers.
35 Bags, laundry.	5 Rompers, pairs.
20 Bibs.	282 Sheets, cotton.
48 Blouses	10 Sheets, rubber.
59 Bureau scarves and table centres.	8 Shrouds.
69 Combinations, pairs.	79 Strong suits and sleeves.
38 Coveralls.	97 Towels, hand and bath.
23 Curtains, pairs.	259 Towels, dish (sacking).
25 Cloths, table.	46 Tie tapes.
152 Dresses.	11 Uniforms, waitress.
216 Diapers.	51 Uniform caps, nurses.
159 Garters, pairs.	399 Miscellaneous articles.
4 Gowns, hospital.	
41 Jackets.	2,758 Total number of articles manufac-
7 Mattresses.	tured.
56 Napkins, table.	38,371 Total number of article repaired.
58 Pads, scrubbing.	
1931— 2,988 Total number of articles manufactured.	
30,848 Total number of articles repaired.	

## Central Alberta Sanatorium

(A. H. BAKER, M.D., *Superintendent*)

Last year's report pointed out that the maximum number of Sanatorium treatment days had been reached with the present accommodation, and this opinion is substantiated by the fact that the average per diem patient strength in 1932 was the same as in 1931, while the number treated was five fewer. Sanatorium beds in Alberta are essentially the same as thirteen years ago, since no increase has been provided.

The beds available for tuberculosis in Alberta in 1931, according to the Department's report, numbered 301; 210 of these are at the Sanatorium and 91 distributed among 22 of the general hospitals. Outside of the cities of Edmonton and Calgary, the beds for tuberculosis number 48. These hospitals treated 390 cases of pulmonary tuberculosis and 271 non-pulmonary cases in 1932, a decrease of 25 and 45 respectively as compared with 1931; 402 were treated at the Sanatorium, of which 367 were tuberculous. All told, 1,028 were treated. While some of these have been included in both hospital and Sanatorium, it is estimated that approximately 1,000 individuals were treated. This is but a part of those sick.

New admissions to the Sanatorium numbered 196, of whom 161 were considered tuberculous. While the patients admitted to Sanatorium and hospital are fewer this year, the deaths reported have increased in the Province, as follows:

	Indian	White
1931 .....	166	219
1932 .....	163	241

The total deaths were 404, which raises the rate per hundred thousand to 55.1 in 1932, as compared with 51.9 in 1931. There has been an increase among the whites of approximately 10%. Of the whites about one-third died elsewhere than in a hospital. This is a significant fact in relation to the spread of this disease. Approximately 50% of those diagnosed as tuberculous had been in intimate house contact with another case of tuberculosis. It is to be noted that the Indians, who constitute less than 2% of our population, supply over 40% of the deaths from tuberculosis. While the Indians are a Federal responsibility, they are undoubtedly a factor in spreading tuberculosis in the Province, and should not be ignored in our anti-tuberculosis work.

The demand for Sanatorium beds resulted in an average wait of 41 days. The longest delay was 92 days. Nine applicants died before a bed was available.

It has been apparent and recognized that Alberta needs more treatment beds for tuberculosis if urgent cases are to receive treatment, looking to a cure or aiming to protect associates. The attempt to cope with this situation involves the provision of more beds or a reduction in the period of treatment now being given.

If the hopelessly sick are sent home it means an increase in the number of infectious cases spreading disease throughout the Province, which number is already too great; if those likely to recover are returned home too soon, it is to be expected that more relapses will result, which tends to nullify any advantage in Sanatorium treatment. Obviously provision for more Sanatorium beds is required.

The situation arising from this lack of Sanatorium accommodation could be appreciably improved by arrangement with certain general hospitals having suitable beds to make use of them. The newly-discovered case requires immediate treatment rather than a delay of months, for the earlier the treatment the greater the probability of cure, and the shorter the period of institutional treatment required. This is why we urge provision for immediate treatment. The hospital beds, as pointed out previously, would allow those very sick to receive suitable care near home rather than in the Sanatorium, and without danger to relatives. The institutional care of tuberculosis requires the care of the hopelessly sick to give comfort and at the same time to check the spread of infection, but it also is definitely interested in the treatment and curing of those sick and their return to remunerative employment. This last can only be satisfactorily accomplished if people are under treatment before the disease has spread extensively.

There are in the Province certain districts where the incidence of tuberculosis greatly exceeds that in more favourable parts. It is in these that more aggressive work must be undertaken in order to attempt to reduce the loss. Unfortunately when cases of tuberculosis are discovered by practicing physicians, or through the efforts of the Sanatorium staff, the delay in getting them under satisfactory treatment is too great through the continual lack of beds. It cannot be too strongly urged that additional Sanatorium beds are urgently needed.

#### *Indian School Survey.*

The annual visit and check up of the two Indian schools on the Blood Reserve near Cardston was carried out in October by Dr. G. M. Reid and Dr. L. M. Mullen, of the Sanatorium staff. Two hundred and seventy-six were examined. They report in part as follows: "This is the third survey of the children attending the two schools on this reserve. We have endeavoured to pick out those cases with definite disease who should be segregated, and also those with indefinite disease who should have some extra care to keep their general health up to par, but do not need to be kept out of school. We desire that our work should be considered as a help to the two schools concerned and to the doctor in charge, and should not be considered as a statistical survey, showing annually the amount of tuberculous disease which is present. At this point I might say that in our opinion the survey has been of real practical value. The heads of the schools and Dr. Mulloy have given splendid co-operation, both at the time the examinations were being made and later in looking after those children who needed extra care. The children who were classed as suspects are showing the results of extra care, and exclusion of the open case from the school lessens the amount of contact infection in the school."



*Clinics.*

The usual Wednesday afternoon clinics have been held at the Sanatorium and in Calgary, where the Calgary Tuberculosis Society operates the clinic. Twenty-three semi-monthly clinics were held in Edmonton at the University Outdoor Clinic on the first and third Thursdays of the month; 412 examinations were made at the Calgary clinics and 316 at Edmonton. Three visits were made to Lethbridge and two to Drumheller and Medicine Hat. A clinic was held at High River in conjunction with the Okotoks-High River Full Time Health District. In all this work an effort was made to examine members of families where tuberculosis is known to exist.

Valuable assistance has been continued throughout the year by the Kinsman's Club in Edmonton and the Tuberculosis Society in Calgary in providing a full time tuberculosis nurse.

In High River the Rotary Club provided X-ray services. In Medicine Hat the Christmas Seal Sale Committee provided X-ray services and arranged the clinics. In Lethbridge the Nursing Mission organized the clinics and provided other services. The sale of Christmas seals by these various organizations has provided the funds necessary for this valuable work, and without which our clinics would have been much less effective in results.

Dr. Davison, travelling diagnostician, visited 47 other points, from Spirit River in the north to Coleman in the south, and as far east as Oyen.

#### CENTRAL ALBERTA SANATORIUM.

The year has shown no increase in accommodation and no gross structural alteration of buildings. Essential services have been maintained which, in view of reduced expenditure, has required more exacting work from every member of the staff, and I am pleased to pay tribute to the loyalty and conscientious work carried on by one and all.

*Visit of His Excellency the Earl of Bessborough.*

His Excellency the Earl of Bessborough and party honoured the Sanatorium with a visit on September 17th. His Excellency was pleased to visit the various buildings and to converse with many of the patients, and in addition received the entire group of ex-service men. A pleasant feature of the visit was due to the fact that the bursar, Lieut.-Col. E. R. Knight, is an honorary aide to His Excellency, and as such had important duties in connection with the visit of the Governor General to Calgary and district.

*Educational Work.*

On October 4th the Calgary Medical Society met at the Sanatorium. Some 50 medical men were present, and listened to the programme put on by the staff. Dr. L. M. Mullen presented a paper on the "Diagnosis of Tuberculosis," and Dr. G. R. Davison a paper on the "Home Treatment of Tuberculosis." X-ray films were shown and various demonstrations of laboratory technique.

Dr. Mullen published in the Canadian Medical Journal a report of a case of artificial pneumothorax re-established, and presented to the Canadian Tuberculosis Association a paper on "Blood Sedimentation."

Dr. Baker addressed the graduate staff of the Royal Alexandra Hospital in Edmonton on "Tuberculosis in General Hospitals," and the Association of Graduate Nurses in Calgary on "General Remarks on Tuberculosis." Radio talks were delivered by Dr. G. R. Davison and Dr. Baker.

#### *Need of Teacher.*

We were fortunate in having a patient, a former school teacher, who was willing to undertake bedside instruction. For several months between 30 and 40 patients were engaged in study. The children and younger patients carried on ordinary school studies, others followed a line of special interest—bookkeeping, stenography, etc. Foreign-born studied English. The effort was a success. The patients had received interest in life, and something was being done to help fit them to return to remunerative employment, while others were encouraged in occupational work. Under the same direction a discussion group was arranged for some 20 male patients, who held weekly meetings for discussion, public speaking, etc. Unfortunately this patient has since left, and there is no one to carry on this useful work. It is urgently felt that next year provision should be made for a school teacher competent to help patients back into ordinary life.

#### *Administration Department.*

The total patient days numbered 74,541, which is practically the same as in 1931. The number of ex-soldier patients decreased so that the total days numbered only 3,041, a reduction of about one-third from last year. In other words, the ex-soldier patients represent only 4% of the strength, and the revenue derived from their maintenance is accordingly reduced.

The per diem cost for the year ending March 31st, 1932, was \$2.35, a reduction of 12c over the preceding year. As pointed out previously, this figure includes expenditure on clinics and all follow-up work in the Province.

#### *Medical and Nursing Services.*

The respective staffs have remained almost unchanged throughout the year. Three assistant physicians, including the travelling diagnostician, are employed, and a matron and 19 graduate nurses. About 75% of the patients receive infirmary or hospital care.

#### *Dental Services.*

Dental service is rendered free to patients except for nominal charge for dentures, bridge work and any special procedures. It is our object to see that every patient has a satisfactory, healthy mouth, capable of proper mastication. The conscientious work of Dr. Heacock, provincial dentist, is keenly appreciated.

#### *Dental Report for Calendar Year, 1932.*

"During the year I visited the Central Alberta Sanatorium ten times, having been absent February and July.

No. of patient examinations .....	658
No. of patient treatments .....	507
No. of prophylactic treatments .....	235
No. of fillings .....	293
No. of extractions .....	137
No. of new dentures .....	15
No. of dentures repaired .....	2

"When admitted to the Sanatorium many patients had been sick for a considerable time. Owing to their condition, care of the teeth frequently has been neglected, and as a consequence dental disease is prevalent. An unhealthy oral cavity is generally the cause of many systemic ills; it is also the cause of much local discomfort. Therefore, it is wise to institute remedial treatment as soon after admission as the condition of the patient will permit."

"A. E. Heacock."

#### *Dietary Department.*

This work is directed by a dietitian, graduate of McDonald College. The number of meals served was 316,488, at a food cost per meal of 0.119 cents.

#### *The Library.*

The library continues to be a source of great interest to many patients. We have some splendid shelves of books, but are always needing additions to replace those worn out. Through the kindness of friends, from time to time, we are able to add to our stock. The number of books issued to readers last year was some 6,500.

#### *Recreation.*

Since the opening of the institution in 1920 our patients have been entertained by moving pictures once a week. However, the old machine is for silent films only, and as these have largely disappeared, we regret that it has been impossible to provide this diversion. It is hoped that before long we may have a sound machine of a portable type, so that some help can be given to those who have been bedridden for months, and in some cases for years. A new radio was installed which has provided a better service to the individual bedside earphones.

#### *Divine Services.*

The Sanatorium is deeply indebted to members of the Calgary Ministerial Association, the Anglican Church, the Roman Catholic Church, and the Salvation Army for divine services held and for bedside visits. Special appreciation is due to those who have assumed more definite responsibility—Rev. Capt. Muncaster, Rev. Father McDonald, Rev. Mr. Aldridge and the Venerable Arch-deacon Swanson. These gentlemen have performed a real and very much appreciated service to our patients.

## CLASSIFICATION OF DISCHARGED PATIENTS, 1932

On Admission.				Residence.		On Discharge.					
	No.	Total %	T.B. %	Not over 31 days.	Over 31 days.	A.	AA.	Q.	I.	U.	D.
I. No Disease .....	4	...	...	1	3	...	...	...	...	3	...
II. Undiagnosed .....	1	...	...	...	1	...	...	...	1	...	...
III. Non-Tuberculous ..	27	...	...	10	17	...	...	...	11	5	1
IV. T.B. Inactive .....	...	...	...	...	...	...	...	...	...	...	...
Total .....	32	16.1	...	11	21	...	...	...	12	8	1
V. T.B. Pulmonary—											
1. Clinical (no bacilli found):											
Minimal	A.....	17	...	...	17	...	3	7	4	3	...
	B.....	...	...	...	...	...	...	...	...	...	...
	C.....	...	...	...	...	...	...	...	...	...	...
Mod. Adv.	A.....	20	...	...	20	...	...	10	10	...	...
	B.....	2	...	...	2	...	...	...	2	...	...
	C.....	1	...	...	1	...	...	...	...	...	1
Far Adv.	A.....	1	...	...	1	...	...	1	...	...	...
	B.....	3	...	...	3	...	...	...	3	...	...
	C.....	2	...	...	2	...	...	...	1	...	1
		46	23.2	28	46	...	3	18	20	3	2
2. Positive (bacilli found):											
Minimal	A.....	1	...	...	1	...	...	...	...	1	...
	B.....	...	...	...	...	...	...	...	...	...	...
	C.....	...	...	...	...	...	...	...	...	...	...
Mod. Adv.	A.....	12	...	1	11	...	...	5	3	3	...
	B.....	3	...	...	3	...	...	...	1	1	1
	C.....	...	...	...	...	...	...	...	...	...	...
Far Adv.	A.....	26	...	2	24	...	...	5	10	2	7
	B.....	39	...	1	38	...	...	4	13	10	11
	C.....	33	...	5	28	...	...	1	4	10	13
Apparently Hopeless		4	...	3	1	...	...	...	...	...	1
		118	59.6	71	12	106	...	15	31	27	33
Total Pul. T.B. Active		164	82.9	...	12	152	...	3	33	51	30
VI. T.B. Non-Pul. ....		2	1	1	...	2	...	...	2	...	...
Tot. "Treated" Patients		175	...	...	...	175	...	3	33	65	38
Classification on discharge of 23 patients not in residence over 31 days .....		23	...	...	...	12	...	...	3	...	8
		198	...	...	...	12	...	3	33	68	38
										44	

**Explanation of Abbreviations and terms used:** The standard of classification is that of the National Tuberculosis Association. Minimal, Moderately Advanced and Far Advanced refer to anatomical extent of disease, while "A", "B", and "C" signify symptoms in order of increasing severity. "A" Arrested, "AA" Apparently Arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died.

N.B.—Only those in residence over 31 days are classed as **treated**.

TOTAL NUMBER OF PATIENT DAYS		INFIRMARY DAYS	
D.P. and N.H. ....	3,041	D.P. and N.H. ....	1,376
Civilian .....	71,500	Civilian .....	55,555
	74,541		56,931
Patients in Sanatorium Jan. 1, 1932.....		D.P.N.H. Civilian.	Total:
Patients treated during 1932.....		8 198	206
Remaining in Sanatorium Jan. 1, 1933.....		19 383	402
		7 197	204

## CLASSIFICATION ON ADMISSION OF 198 DISCHARGED PATIENTS

No disease .....	4	Tuberculosis, inactive .....	...
Undiagnosed .....	1	Tuberculosis, pulmonary, active.....	164
Non-Tuberculous .....	27	Tuberculosis, non-pulmonary .....	2

## CLASSIFICATION OF 152 "TREATED" CASES OF ACTIVE PULMONARY TUBERCULOSIS

On Admission.		On Discharge.	
		Benefited.	Non-benefited.
Minimal .....	18	14	4
Moderately advanced .....	37	31	6
Far advanced .....	96	42	22
Apparently hopeless .....	1	...	...
	152	87	30
			35



## DIAGNOSIS OF NON-TUBERCULOUS CASES

Pulmonary Abscess .....	1	Pleurisy .....	1
Asthma .....	1	Post Influenzal Debility .....	1
Bronchiectasis .....	1	Pregnancy .....	1
Chronic Bronchitis .....	1	Pulmonary Fibrosis .....	3
Carcinoma of liver with mediastinal metastasis .....	1	Pyopneumothorax .....	1
Carcinoma of stomach .....	1	Sinusitis .....	2
Debility .....	2	Septic Tonsils .....	1
Pleural Empyema .....	1	Subacute Bacterial Endocarditis .....	1
Lues .....	1	Scoliosis .....	1
Multiple Myeloma .....	1	Upper Respiratory Disease .....	3
Nephritis .....	1		27

## REPORT OF CLINICS HELD

	No. of Clinics.	Ex-Pts. Exam.	New T.B. Cases.	Suspects.	Total Exams.
Calgary Clinic .....	42	22	18	19	228
Edmonton Clinic .....	23	106	42	35	316
Sanatorium .....	52	38	22	12	184
Throughout Province .....	52	60	36	34	491
Indian Schools, Cardston .....	1	....	9	49	276
Staff at Sanatorium .....	....	....	....	....	111
Total.....	....	....	....	....	1,606

## HELIO THERAPY REPORT

Lamp Treatments:	
Under treatment Jan. 1, 1932.....	23
Began treatment during year .....	32
Discontinued treatment during year.....	35
Total number treated during year.....	55
Total number of treatments .....	4,693

	No. Treated	No. Treatments	Time
Sun Baths .....	196	3,386	1,711½ hrs.
Air Baths .....	517	13,481	9,427 hrs.
Solar Laryngoscopic treatments .....	89	1,625	131 2-3 hrs.

## SUMMARY OF OPERATING ROOM WORK

Pneumothorax Cases:	
Number under treatment Jan. 1, 1932 .....	41
Number new cases .....	31
Number cases carried on from other treatment centres .....	3
Number cases terminated during year .....	28
Number under treatment Dec. 31, 1932 .....	47
Number unsuccessfully attempted .....	15
Pneumothorax refills (75 patients) .....	1,545
Initial pneumothorax cases (successful) .....	31
Initial pneumothorax cases (unsuccessful) .....	15
Intravenous injections Calcium Chloride .....	651
Intravenous injections Glucose and Saline .....	17
Interstitial injections Saline .....	1
Intratracheal injections Lipiodol .....	11
Aspirations of air from Pleural Cavity .....	21
Aspirations of fluid from Pleural Cavity .....	123
Irrigation of Pleural Cavity .....	70
Oleo thorax treatments .....	62
Exploration Punctures .....	26
Aspiration of Abscesses .....	7
Enlargement of Sinus into Pleural Cavity with drainage .....	1
Injection of Lipiodol into Pleural Sinus .....	1
Rib Resection .....	1
Phrenic Avulsions .....	7
Pneumoperitoneum .....	4
Abdominal Paracentesis (2 patients) .....	10
Excision of glands .....	1
Lumbar Punctures (9 patients) .....	20
Suturing of Wound .....	2
Basal Metabolism Tests .....	9
Obstetrical case .....	1
Examinations and Dressings .....	70
Total.....	1,116

## LABORATORY REPORT

LABORATORY REPORT			
Sputum Examinations			
In Patients .....	2,732	Pleural Fluid .....	78
Out Patients .....	100	Guinea Pig Inoculation .....	41
Staff .....	5	Guinea Pig Autopsies .....	50
		Faeces .....	3
	2,837	Other Examinations .....	133
Other Examinations			
Urinalysis (Routine and Special) .....	2,574		4,577
Blood .....	1,681		
Spinal Fluid .....	17	Total Examinations .....	7,414

Number of patients admitted during 1932.....	196
Number with positive sputum on admission.....	121
Number developing positive sputum here.....	7
Number with sputum persistently negative.....	68
Number diagnosed Tuberculosis .....	161

## SUMMARY OF DENTAL WORK DONE

Patients examined .....	658	Plates .....	15
Patients treated .....	507	Repairs to Plates .....	2
Prophylaxis .....	235	Extractions .....	137
Fillings .....	293		

## X-RAY REPORT

<b>Radiographic:</b>			
Chest .....	903	Tibia .....	1
Spine .....	35	Dental .....	83
Pelvis .....	5	Gastro-Intestinal .....	58
Hip .....	2	Barium Enema .....	4
Knee .....	8	<b>Fluoroscopic:</b>	
Hand .....	6	Chest (Gas Cases) .....	1,394
Skull .....	30	(Others) .....	261
Ribs .....	1	(Lipiodol) .....	11
Ankle .....	3	Barium Series .....	57
Elbow .....	1	Barium Enemata .....	7

## I.—SEX:

Male .....	107
Female .....	91
<b>Total.....</b>	<b>198</b>

## II.—SOCIAL:

Married .....	85
Single .....	108
Widows .....	2
Widowers .....	3
<b>Total.....</b>	<b>198</b>

## III.—AGES:

5 to 9 years of age .....	3	40 to 49 years of age .....	28
10 to 14 years of age .....	3	50 to 59 years of age .....	11
15 to 19 years of age .....	23	<b>Total.....</b>	<b>198</b>
20 to 29 years of age .....	80		
30 to 39 years of age .....	50		

## IV.—RELIGION:

Baptist .....	13	Presbyterian .....	30
Brethern .....	2	Pentecostal .....	1
Church of Christ .....	1	Roman Catholic .....	42
Church of England .....	32	United .....	38
Greek Catholic .....	7	Salvation .....	1
Greek Orthodox .....	6	Non-sectarian .....	2
Lutheran .....	17	Seventh Day Adventist .....	2
Hebrew .....	2		
Latter Day Saint .....	2		
			198

## V.—OCCUPATIONS (Women):

Clerk .....	2	Nurse .....	6
Factory Worker .....	1	Stenographer .....	3
Hairdresser .....	1	Student .....	12
Housekeeper .....	1	Teacher .....	5
Housewife .....	44	Waitress .....	2
Laundress .....	1	None .....	3
Maid .....	4		
Nurse-in-Training .....	6		
			91

## VI.—OCCUPATIONS (Men):

Accountant .....	2	Grain Inspector .....	1
Advertiser .....	1	Immigration Inspector .....	1
Baker .....	1	Labourer .....	19
Bank Manager .....	1	Merchant .....	1
Bricklayer .....	1	Miner .....	8
Bookkeeper .....	1	Physician .....	1
Carpenter .....	1	Salesman .....	4
Checker .....	1	Soldier .....	1
Civil Servant .....	1	Storekeeper .....	1
Clerk .....	7	Student .....	1
Cattle Buyer .....	1	Teacher .....	9
Dentist .....	1	Timekeeper .....	1
Drayman .....	1	Orderly .....	1
Electrician .....	1	None .....	1
Farmer .....	35		
Gardener .....	1		
			107

## VII.—NATIVITY:

Alberta .....	49	Newfoundland .....	1
Canada .....	42	Norway .....	2
Austria .....	2	Poland .....	8
Belgium .....	1	Roumania .....	2
Denmark .....	2	Russia .....	3
England .....	23	Switzerland .....	1
France .....	1	Scotland .....	15
Germany .....	3	Sweden .....	6
Hungary .....	2	United States .....	21
Ireland .....	6	Ukraine .....	1
Italy .....	1	Wales .....	4
Jugo-Slavia .....	1		
Latvia .....	1		
			198

## VIII.—LENGTH OF RESIDENCE IN ALBERTA:

Born in Alberta .....	49	15 to 19 years .....	22
Under 1 year .....	8	20 to 24 years .....	30
1 to 2 years .....	15	25 to 30 years .....	8
3 to 5 years .....	22	Over 30 years .....	4
6 to 9 years .....	17		
10 to 14 years .....	23		198

## IX.—RACIAL ORIGIN:

Austrian .....	2	Negro .....	1
Belgian .....	1	Norwegian .....	6
Danish .....	5	Polish .....	7
Dutch .....	1	Roumanian .....	1
English .....	42	Russian .....	2
French .....	8	Slav .....	1
Galician .....	1	Scotch .....	39
German .....	18	Swedish .....	10
Hebrew .....	2	Swiss .....	1
Hungarian .....	3	Ukrainian .....	10
Indian .....	3	Welsh .....	5
Italian .....	1		
Irish .....	27		198
Lett .....	1		

## X.—RESIDENCE:

## CITIES:

Calgary .....	41	Medicine Hat .....	13
Edmonton .....	35	Red Deer .....	2
Drumheller .....	2	Wetaskiwin .....	3
Lethbridge .....	6		

## TOWNS:

Blairmore .....	1	Innisfail .....	3
Camrose .....	1	Macleod .....	1
Coleman .....	1	Ponoka .....	2
Edson .....	1	Vegreville .....	1
Gleichen .....	1	Taber .....	1

## VILLAGES:

Bonnyville .....	1	Lamont .....	2
Clive .....	1	Rocky Mountain House .....	1
Cowley .....	1	Ryley .....	1
Edgerton .....	1	Banff National Parks .....	1
Forestburg .....	1	Waterton National Parks .....	1
Kitscoty .....	1	Transients .....	3
Killam .....	1		

## LOCAL IMPROVEMENT DISTRICTS:

No. 9 .....	2	No. 667 .....	1
No. 38 .....	1	No. 695 .....	1
No. 185 .....	1	No. 769 .....	1
No. 247 .....	1	No. 771 .....	1
No. 276 .....	3		

## MUNICIPAL DISTRICTS:

M.D. 34 .....	1	M.D. 427 .....	1
M.D. 128 .....	2	M.D. 428 .....	1
M.D. 159 .....	1	M.D. 456 .....	3
M.D. 190 .....	1	M.D. 457 .....	2
M.D. 219 .....	1	M.D. 458 .....	1
M.D. 220 .....	1	M.D. 484 .....	1
M.D. 242 .....	1	M.D. 485 .....	1
M.D. 244 .....	1	M.D. 488 .....	1
M.D. 250 .....	1	M.D. 489 .....	2
M.D. 272 .....	1	M.D. 512 .....	1
M.D. 275 .....	1	M.D. 513 .....	1
M.D. 278 .....	1	M.D. 514 .....	2
M.D. 279 .....	1	M.D. 515 .....	1
M.D. 280 .....	1	M.D. 544 .....	2
M.D. 304 .....	1	M.D. 545 .....	1
M.D. 307 .....	1	M.D. 546 .....	1
M.D. 308 .....	1	M.D. 549 .....	2
M.D. 336 .....	1	M.D. 518 .....	1
M.D. 337 .....	1	M.D. 520 .....	1
M.D. 361 .....	1	M.D. 578 .....	1
M.D. 364 .....	1	M.D. 582 .....	1
M.D. 391 .....	1	M.D. 739 .....	1
M.D. 396 .....	1	M.D. 857 .....	1
M.D. 400 .....	1		

## ENTERTAINMENTS AND DONATIONS, 1932.

- CONCERTS—Office Staff Union Milk Company; Miss Minnie Jackson; B.P.O.E.; Mrs. E. J. Anderson; Mr. James Hogg; Mrs. Norman Dingle; Alice Murdock School of Dancing; Red Cross Society.
- BAND CONCERTS—Elks' Band; Salvation Army Band; Sea-Cadets Band; Pipers, 10th Batt. (1st Calgary Regiment).
- PLAYS—Ratepayers' Association, G.K. and W.C.; Young People's Society, Knox Church; Young People's Society, St. Mary's Cathedral; Young People's Society, Grace Church; Young People's Society, Unity League.
- ILLUSTRATED LECTURES—Dr. Carpenter; Mr. T. Underwood.
- WHIST DRIVES—Military Chapter I.O.D.E.; Recreation Committee.
- TOURNAMENTS—Billiard Tournament, Recreation Committee; Cribbage Tournament, Recreation Committee.
- PARTIES—Recreation Committee, Hallowe'en Party; Annual Garden Party.
- PASSES—Capitol Theatre; Palace Theatre; Strand Theatre; Grand Theatre; The Stadium; Calgary Exhibition and Stampede; Stampede Parade.
- DRIVES—Cars for Stampede Parade, T. Eaton Company; Decoration Day, Rotary Club; other occasions, Hudson's Bay Company.
- REPAIRS TO BIRD BOXES—Tenth Troop Boy Scouts.
- BOOKS AND MAGAZINES—Rotary Club (6 Subscriptions); Red Deer Advocate (1 Subscription); Herald Lending Library (34 Volumes); Mrs. A. M. Scott (4 Volumes); Mrs. H. W. McLean (54 Volumes); Mr. Leigh Spencer (40 Volumes); Calgary Public Library (3 Volumes); Toc H Magazine; Sunshine Club, Christ Church.
- FLOWERS—Mr. E. L. Richardson.
- CHRISTMAS DONATIONS—Cheques: Tuberculosis Veteran's Association, Samaritan Club, Capt. McPhail Chapter I.O.D.E., Mr. Hugh Farthing. Chocolates, Cigarettes, Turkeys, etc.: Ontario Laundry; Mrs. McCrindle, Byemore; Mr. A. J. Weyers; Union Milk Company; Y. W. C. T. U., Claresholm; Catholic Women's League. Parcels for Patients: Red Cross Society; Military Chapter I.O.D.E.; Calgary Tuberculosis Society; Children's Hospital Aid; Knights of Columbus; Catholic Women's League; Junior Catholic Women's League; Edmonton Board of Relief.



ANNUAL REPORT  
OF THE  
**Vital Statistics Branch**  
OF THE  
DEPARTMENT OF PUBLIC HEALTH  
PROVINCE OF ALBERTA  
1932



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# VITAL STATISTICS BRANCH

(DONALD MACKIE, *Deputy Registrar General*)

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The outstanding features revealed by the vital statistics of the year under review show a further decrease in the birth rate, a decrease in the marriage rate, a slight increase in the general death rate, and substantial decreases in the maternal and infantile death rates.

The birth rate per thousand population is the lowest recorded in any year since the beginning of provincial registration, notwithstanding the fact that it is higher than that of any Province west of Quebec. The number of deaths and the death rate show a slight increase over the previous year, but are less than the average for the preceding five years. The infantile death rate and the maternal mortality rate both constitute a new low record. The mortality attributed to epidemic and contagious diseases has generally maintained the low rates reached during the preceding year, with the exception of influenza, which has doubled; this is due, however, to the fact that in the two previous years the influenza rate was remarkably low. The cancer rate still moves steadily up, the increase over the preceding year amounting to no less than 22%. The number of deaths from suicide has considerably decreased, owing probably to relief measures and legislation enacted to alleviate the situation with regard to debtors. Deaths from violence, especially automobile accidents, show a considerable decline over the previous year, which may be attributable to the economic conditions prevailing.

The population of the Province of Alberta for the year ending 1932 has been estimated by the Dominion Bureau of Statistics at 740,000; this figure has therefore been used in this report when estimating rates.

The total living births registered during the year numbered 16,990, being equivalent to a birth rate of 22.96 per 1,000 population, and is 262 less than the number for the preceding year.

Comprising the 16,990 births were 8,713 males and 8,277 females, the ratio being 1,052 males to 1,000 females, which is approximately the average for the previous ten years. There were 466 twins and 9 triplets. The number of illegitimate children born was 605, being 30 less than the previous year, and constituting a rate of 3.6 per 100 births.

Of the total births registered, 7,361 occurred in the cities and towns of over 1,000 population, 8,891 in the rural districts, and 738 on Indian reservations. The births registered in the four large cities are as follows: Edmonton 2,320, Calgary 1,726, Lethbridge 526, and Medicine Hat 358.

For comparison, the following are the birth rates in the Canadian Provinces for the year 1932:

Canada .....	22.4	Ontario .....	19.2
Prince Edward Island .....	22.8	Manitoba .....	19.9
Nova Scotia .....	22.3	Saskatchewan .....	22.3
New Brunswick .....	26.2	Alberta .....	22.9
Quebec .....	28.3	British Columbia .....	14.4

Marriages registered in Alberta during the year numbered 5,054. This number is 88 less than that of the previous year, and 339 less than the average of the 5 preceding years, and constitutes a rate of 6.83 per 1,000 population, which is still the highest marriage rate in any Canadian Province, the rate for Canada and the Provinces being as follows for the years 1932:

Canada .....	6.0	Ontario .....	6.4
Prince Edward Island .....	5.1	Manitoba .....	6.7
Nova Scotia .....	6.2	Saskatchewan .....	6.2
New Brunswick .....	5.8	Alberta .....	6.8
Quebec .....	5.2	British Columbia .....	5.1

There were 108 brides 16 years of age and under, 1,308 brides between the ages of 17 and 19, 2,308 between the ages of 20 and 24, 24 brides and 62 grooms were over 60 years of age, 17 of the grooms and 5 of the brides being over 70 years. The marriages in the four large cities were as follows: Edmonton 1,178, Calgary 869, Lethbridge 184, and Medicine Hat 147.

The divorces made absolute during the year numbered 149, which is 7 less than the number for the previous year, and 7 less than the average for the preceding 5 years; 68 were granted to husbands and 81 to wives.

The deaths of 5,521 persons (including Indians) were registered in Alberta during the year 1932, of whom 3,248 were males and 2,273 were females. This number is 219 more than in the previous year, and constitutes a death rate of 7.46 per 1,000 population, being an increase of .22 compared with the previous year. The following are the death rates for Canada and the various provinces during the year 1932:

Canada .....	9.9	Ontario .....	10.5
Prince Edward Island .....	11.8	Manitoba .....	7.5
Nova Scotia .....	11.8	Saskatchewan .....	6.5
New Brunswick .....	11.0	Alberta .....	7.4
Quebec .....	11.4	British Columbia .....	8.7

Heart disease accounted for the largest percentage of deaths, being 10.92 of the total. Cancer was again second, having risen from 8.32 of the total deaths to 9.76. Pneumonia with 6.56 and Violent Deaths with 6.18 were respectively third and fourth, the percentages, however, in these two causes having considerably decreased, as is shown in the following table. Pulmonary Tuberculosis was the fifth highest cause, accounting for 5.67 of the total, which is a slight increase over the preceding year. Influenza with 5.38 takes sixth place, and is almost double the rate for the previous year. The rate for puerperal deaths dropped to 3.76 per 1,000 births, representing 23 less deaths during the year.

The following table shows in order of frequency those causes of death which during the year or in previous years accounted for at least 1 per cent. of the total deaths. Both the actual numbers and the percentage of each is given, together with the figures for the three preceding years for the purposes of comparison:

Causes of Death	1932		1931		1930		1929	
	Number	Per cent. of Total.	Number	Per cent. of Total	Number	Per cent. of Total	Number	Per cent. of Total
Diseases of the Heart .....	762	13.80	503	9.49	564	10.26	564	9.05
Malignant Tumors .....	539	9.76	441	8.32	482	8.75	452	7.25
Pneumonia (all forms) .....	362	6.56	410	7.73	468	8.52	561	9.00
Violent Deaths (suicides excepted).....	341	6.18	408	7.70	463	8.42	474	7.60
Pulmonary Tuberculosis .....	313	5.67	306	5.77	321	5.84	321	5.15
Influenza .....	297	5.38	186	3.51	130	2.37	429	6.88
Diseases of the Circulatory System (heart excepted) .....	283	5.13	389	7.34	252	4.59	223	3.57
Nephritis .....	218	3.95	168	3.17	172	3.13	211	3.38
Apoplexy .....	149	2.70	126	2.38	116	2.11	131	2.10
Appendicitis .....	137	2.48	132	2.49	137	2.49	152	2.44
Diarrhoea and Enteritis (under 2 yrs. of age) .....	131	2.37	153	2.89	128	2.33	145	2.32
Suicides .....	96	1.74	123	2.32	113	2.06	84	1.35
Diseases and Accidents of Pregnancy .....	64	1.16	87	1.64	114	2.07	123	1.98
Whooping Cough .....	34	.62	32	.60	51	.93	70	1.12
Measles .....	14	.25	7	.13	13	.24	82	1.31
Diphtheria .....	10	.18	25	.47	30	.55	64	1.03
Typhoid Fever .....	9	.16	16	.30	16	.29	26	.42
Scarlet Fever .....	4	.07	8	.15	31	.56	45	.73

The foregoing list comprises 3,763 deaths, and amounts to 67.9% of the total deaths for the year.

The deaths of children less than one year old numbered 997, being 200 less than the previous year. This constitutes an infantile mortality rate of 58.62 per 1,000 births, a decrease of 10.8 from the previous year, and is 13.6 less than that of the average of the 5 preceding years.

The following table gives, for the purpose of comparison, the infantile mortality rate for Canada and the provinces for the year 1932:

Canada .....	73.2	Ontario .....	61.9
Prince Edward Island .....	65.1	Manitoba .....	59.2
Nova Scotia .....	72.9	Saskatchewan .....	63.6
New Brunswick .....	71.6	Alberta .....	58.6
Quebec .....	94.2	British Columbia .....	46.8

There was a decrease in deaths by suicides, the number being 96, compared with 123 for the previous year. Deaths by murder and manslaughter were 9, a decrease of 14 from the previous year. Stillbirths numbered 481, as compared with 453 for the year 1931.

## DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTIC PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use as smaller areas the Dominion Census Divisions.

These Divisions are fixed, and as the population increases, may be subdivided without destroying their value for purposes of Vital Statistic comparison with preceding years.

The following table shows these Census areas divided into Municipalities, Local Improvement Districts, Cities, Towns and Villages with the 1931 and 1926 official Division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICI-  
PALITIES FOR CENSUS YEARS, 1931 AND 1926

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1931	1926		1931	1926
<b>Province .....</b>	<b>731,605</b>	<b>607,599</b>	<b>Division No. 2—Continued:</b>		
<b>Division No. 1: Medicine Hat</b>	<b>28,849</b>	<b>25,624</b>	<b>Towns—Continued:</b>		
1 L.I.D. ....	90	64	Coleman .....	1,704	2,044
2 L.I.D. ....	128	134	Diamond City .....	119	290
3 L.I.D. ....	152	127	Granum .....	329	272
4 L.I.D. ....	526	554	Macleod .....	1,447	1,715
5 L.I.D. ....	1,097	876	Magrath .....	1,224	1,202
6 L.I.D. ....	678	482	Pincher Creek .....	1,024	1,003
31 L.I.D. ....	38	38	Raymond .....	1,849	1,779
32 L.I.D. ....	580	531	Villages .....	2,161	1,935
33 Flowery Plains .....	477	513	Coaldale .....	251	164
34 Burlington .....	793	773	Coalhurst .....	953	796
35 L.I.D. ....	307	215	Cowley .....	151	148
36 Warner .....	1,214	956	Frank .....	268	299
61 L.I.D. ....	808	799	Monarch .....	117	97
62 L.I.D. ....	684	682	Pincher City .....	45	50
63 L.I.D. ....	570	449	Stirling .....	376	326
64 Forty Mile .....	1,060	1,118			
65 Eureka .....	1,148	779	<b>Division No. 3: Bow.....</b>	<b>15,066</b>	<b>12,149</b>
66 L.I.D. ....	2,082	1,464	96 McLean .....	713	668
91 L.I.D. ....	1,115	1,007	121 L.I.D. ....	452	367
92 Excelsior .....	905	776	122 L.I.D. ....	357	364
93 L.I.D. ....	852	612	123 Sunny South .....	209	137
94 Bow Island .....	605	542	124 L.I.D. ....	30	42
Cities .....	10,300	9,536	125 L.I.D. ....	713	130
Medicine Hat .....	10,300	9,536	126 L.I.D. ....	620	454
Towns .....	1,827	1,851	151 L.I.D. ....	1,097	831
Bow Island .....	314	299	152 L.I.D. ....	129	125
Irvine .....	234	210	153 L.I.D. ....	135	153
Taber .....	1,279	1,342	154 L.I.D. ....	620	145
Villages .....	813	746	155 L.I.D. ....	722	650
Burdett .....	121	112	156 L.I.D. ....	673	668
Milk River .....	350	211	181 L.I.D. ....	1,304	1,199
Warner .....	342	313	182 L.I.D. ....	349	355
<b>Division No. 2: Macleod .....</b>	<b>57,186</b>	<b>51,103</b>	183 Britannia .....	477	426
7 L.I.D. ....	369	324	184 L.I.D. ....	169	138
8 L.I.D. ....	1,474	1,360	185 L.I.D. ....	1,634	1,226
9 L.I.D. ....	1,580	1,495	186 L.I.D. ....	803	561
10 Cochrane .....	1,320	1,409	211 L.I.D. ....	548	436
37 Sugar City .....	1,993	1,692	Towns .....	2,515	2,204
38 L.I.D. ....	1,276	1,156	Bassano .....	615	777
39 Kerr .....	2,007	1,522	Brooks .....	708	511
40 Castle River .....	540	582	Redcliffe .....	1,192	916
67 L.I.D. ....	4,691	3,470	Villages .....	747	870
68 L.I.D. ....	2,340	1,435	Alderson .....	81	79
69 Bright .....	1,442	1,300	Duchess .....	114	136
70 Livingstone .....	1,502	1,511	Empress .....	314	374
71 L.I.D. ....	4,282	3,965	Enchant .....	92	70
99 Argyle .....	1,900	1,805	Jenner .....	62	44
100 L.I.D. ....	677	640	Retlaw .....	84	91
101 L.I.D. ....	192	149	<b>Division No. 4: Nanton .....</b>	<b>29,067</b>	<b>24,775</b>
Indian Reserves .....	1,798	1,694	97 L.I.D. ....	2,258	1,486
Cities .....	13,489	10,735	98 Little Bow .....	1,589	1,581
Lethbridge .....	13,489	10,735	127 Clifton .....	1,043	820
Towns .....	12,153	12,924	128 Harmony .....	1,157	1,152
Blairmore .....	1,629	1,609	129 Clear Lake .....	2,231	2,198
Cardston .....	1,672	2,034	130 L.I.D. ....	395	306
Claresholm .....	1,156	956	131 L.I.D. ....	46	45



## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1931	1926		1931	1926
<b>Division No. 4—Continued:</b>			<b>Division No. 6—Continued:</b>		
157 Marquis .....	1,923	2,147	279 Norquay .....	2,170	2,354
158 Royal .....	1,751	1,802	280 Rosebud .....	2,177	2,156
159 Riley .....	1,959	2,052	281 Beaver Dam .....	1,926	1,665
160 L.I.D. ....	381	305	282 L.I.D. ....	593	508
161 L.I.D. ....	40	39	308 Ghost Pine .....	2,129	2,206
189 Dinton .....	1,990	1,855	309 Stauffer .....	2,027	1,975
190 Sheep Creek .....	1,988	1,861	310 Mountain View .....	2,506	2,371
191 Stockland .....	2,907	1,779	311 Westerdale .....	2,420	2,224
192 L.I.D. ....	8	5	Unorganized parts .....	2,238	1,926
Towns .....	4,343	4,035	Indian Reserves .....	2,109	1,636
Carmangay .....	279	290	Banff .....	2,519	2,206
High River .....	1,459	1,377	Cities .....	86,748	61,869
Nanton .....	739	729	Calgary .....	83,761	65,291
Okotoks .....	760	579	Drumheller .....	2,987	2,578
Stavely .....	303	285	Towns .....	3,475	3,422
Vulcan .....	803	775	Didsbury .....	801	785
Villages .....	3,058	1,806	Gleichen .....	514	510
Arrowwood .....	293	.....	Olds .....	1,056	1,003
Barons .....	284	256	Strathmore .....	523	540
Black Diamond .....	683	.....	Three Hills .....	581	584
Blackie .....	251	289	Villages .....	3,965	3,742
Cayley .....	127	191	Acme .....	234	220
Champion .....	310	287	Airdrie .....	198	191
Lomond .....	176	147	Beiseker .....	230	212
Milo .....	135	.....	Carbon .....	355	426
Nobleford .....	143	136	Carstairs .....	387	381
Turner Valley .....	656	.....	Cluny .....	134	192
<b>Division No. 5: Acadia.....</b>	<b>26,651</b>	<b>27,247</b>	Cochrane .....	293	282
212 L.I.D. ....	697	591	Crossfield .....	321	317
213 L.I.D. ....	398	374	Hussar .....	151	.....
214 Berry Creek .....	581	534	Irricana .....	161	132
215 Bulyea .....	316	336	Langdon .....	83	94
241 Acadia .....	1,029	841	Newcastle .....	304	281
242 Cereal .....	1,103	1,925	Rockyford .....	194	188
243 Collholme .....	807	711	Rosebud .....	101	152
244 Flowerdale .....	704	718	Standard .....	218	221
245 Lonebutte .....	613	637	Swalwell .....	95	.....
246 L.I.D. ....	1,180	308	Trochu .....	506	453
271 Bertawan .....	1,186	1,229	<b>Division No. 7: Battle River</b>	<b>38,106</b>	<b>35,991</b>
272 Golden Centre .....	1,227	1,130	331 L.I.D. ....	1,180	1,147
273 Sounding Creek .....	740	752	332 L.I.D. ....	1,015	998
274 Richdale .....	788	721	333 L.I.D. ....	1,255	1,146
275 Hand Hills .....	1,189	1,099	334 Coronation .....	2,022	1,865
277 Michichi .....	2,178	2,015	335 Sullivan Lake .....	707	719
301 Canmer .....	814	1,035	361 Rosenheim .....	1,744	1,563
302 Stewart .....	372	857	362 Hillcrest .....	1,200	1,218
303 Wiste .....	1,199	1,073	363 Stocks .....	1,186	1,133
304 Hiram .....	796	617	364 Flagstaff .....	1,683	1,841
305 Dowling Lake .....	1,482	1,350	365 Progress .....	1,999	1,896
306 Lambton .....	1,651	1,694	391 Sifton .....	1,475	1,537
307 Starland .....	1,446	1,378	392 Vale .....	958	886
Towns .....	1,862	4,435	393 Huamha .....	1,233	1,123
Hanna .....	1,490	1,400	394 Asquith .....	1,205	1,222
Youngstown .....	372	457	395 Wheatland .....	1,819	1,605
Villages .....	1,724	1,787	421 Ribstone .....	1,452	1,300
Cereal .....	185	150	422 Gilt Edge .....	1,674	1,438
Chinook .....	176	198	423 Battle River .....	1,466	1,097
Craigmyle .....	236	232	424 Kinsella .....	1,237	1,053
Delia .....	286	329	425 Stirling .....	1,925	2,110
Morrin .....	149	162	455 Iron Creek .....	2,121	1,941
Munson .....	164	223	Towns .....	2,947	2,892
Oyen .....	401	346	Castor .....	634	651
Richdale .....	44	58	Coronation .....	738	713
Rumsey .....	83	89	Hardisty .....	428	500
<b>Division No. 6: Calgary .....</b>	<b>140,624</b>	<b>114,841</b>	Wainwright .....	1,147	1,028
216 L.I.D. ....	520	297	Villages .....	4,603	4,261
217 L.I.D. ....	794	977	Alliance .....	260	278
218 Blackfoot .....	1,590	1,787	Cadogan .....	128	116
219 Bow Valley .....	1,679	1,981	Chauvin .....	269	269
220 Shepard .....	3,048	2,470	Compeer .....	94	.....
221 Springbank .....	2,166	1,716	Consort .....	299	196
222 L.I.D. ....	438	372	Czar .....	140	117
247 L.I.D. ....	1,073	945	Edgerton .....	189	182
248 Grasswold .....	1,448	1,495	Forestburg .....	291	209
249 Keoma .....	1,525	1,440	Galahad .....	150	142
250 Beddington .....	2,272	2,339	Hughenden .....	191	159
251 L.I.D. ....	1,427	931	Irma .....	196	190
252 L.I.D. ....	277	249	Killam .....	326	365
278 Carbon .....	5,365	4,160	Lougheed .....	218	265
			Monitor .....	137	139

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1931	1926		1931	1926
<b>Division No. 7—Continued:</b>			<b>Division No. 9—Continued:</b>		
Provost .....	533	476	Unorganized parts .....	2,895	1,765
Sedgewick .....	338	362	Indian Reserves .....	249	.....
Strome .....	172	182	Jasper .....	1,230	910
Veteran .....	180	167	Villages .....	2,319	1,926
Viking .....	492	447	Bentley .....	233	211
<b>Division No. 8: Red Deer...</b>	<b>61,016</b>	<b>57,693</b>	Bowden .....	233	202
336 Success .....	1,705	1,592	Eckville .....	169	178
337 Vimy .....	1,074	1,140	North Red Deer .....	318	293
338 Hays .....	2,364	2,458	Rimby .....	304	280
339 Pine Lake .....	2,098	1,974	Rocky Mt. House .....	646	467
340 Arthur .....	2,177	1,952	Sylvan Lake .....	416	295
366 Dublin .....	1,425	1,356	<b>Division No. 10: Victoria...</b>	<b>58,049</b>	<b>51,835</b>
367 Waverly .....	1,995	1,839	451 Merton .....	1,792	1,221
396 Haig .....	1,486	1,456	452 Grizzly Bear .....	1,396	997
397 Lakeside .....	1,622	1,517	453 Buffalo Coulee .....	1,292	1,067
398 Lamerton .....	2,205	2,291	454 Lakeview .....	1,525	1,389
399 Crown .....	3,689	3,644	481 Wellington .....	1,888	1,539
426 Melrose .....	2,537	2,425	482 Vermilion Valley .....	1,843	1,416
427 Evergreen .....	2,592	2,677	483 Melberta .....	1,992	1,605
428 Watרגlen .....	1,386	1,346	484 Birch Lake .....	2,312	2,163
429 Fertile Valley .....	3,856	2,080	485 Patricia .....	2,111	1,789
456 Parkland .....	2,971	2,851	486 Beaver Lake .....	3,028	2,915
457 Lloyd George .....	2,791	2,702	511 Streamstown .....	2,254	1,773
458 Montgomery .....	3,329	3,298	512 Ethelwyn .....	3,035	2,485
459 Bigstone .....	2,807	2,386	513 Ukraina .....	3,245	2,806
Indian Reserves .....	1,141	971	514 Sobor .....	3,326	2,933
Cities .....	4,469	3,905	515 Norma .....	3,201	3,047
Red Deer .....	2,344	2,021	516 The Pines .....	3,464	2,464
Wetaskiwin .....	2,125	1,884	545 Eagle .....	4,100	3,896
Towns .....	7,455	8,412	546 Wostok .....	4,584	4,520
Big Valley .....	455	767	547 Leslie .....	3,725	3,815
Camrose .....	2,258	2,002	Towns .....	3,468	3,324
Daysland .....	404	490	Lloydminster (part)..	539	400
Innisfail .....	1,024	944	Vegreville .....	1,659	1,721
Lacombe .....	1,259	1,151	Vermilion .....	1,270	1,203
Ponoka .....	836	1,931	Villages .....	4,468	3,671
Stettler .....	1,219	1,127	Andrew .....	115	.....
Villages .....	3,842	3,421	Bruderheim .....	280	328
Alix .....	241	229	Chipman .....	284	330
Bashaw .....	385	418	Derwent .....	107	.....
Bawlf .....	183	184	Holden .....	230	214
Bittern Lake .....	47	37	Innisfree .....	227	219
Blackfalds .....	84	105	Islay .....	141	172
Botha .....	107	128	Kitscoty .....	280	266
Clive .....	215	208	Lamont .....	507	506
Delburne .....	193	151	Lavoy .....	151	143
Donalda .....	169	191	Mannville .....	307	314
Edberg .....	131	.....	Minburn .....	119	139
Elнора .....	153	.....	Mundare .....	832	820
Erskine .....	174	160	Myrnam .....	131	.....
Ferintosh .....	161	126	Ranfurly .....	122	.....
Gadsby .....	144	162	Ryley .....	236	220
Halkirk .....	160	165	Two Hills .....	149	.....
Heisler .....	125	113	Willington .....	250	.....
Millet .....	300	241	<b>Division No. 11: Edmonton...</b>	<b>126,832</b>	<b>106,592</b>
Mirror .....	534	431	487 Cornhill .....	2,753	2,381
New Norway .....	142	137	488 Black Mud .....	3,797	3,396
Ohaton .....	69	74	489 Liberty .....	4,662	4,509
Penhold .....	125	161	490 Pioneer .....	2,603	1,493
<b>Division No. 9: Rocky Mountain House .....</b>	<b>24,503</b>	<b>20,024</b>	491 L.I.D. .....	907	345
312 Waterloo .....	1,008	665	517 Clover Bar .....	2,754	2,887
341 Poplar Grove .....	2,540	2,366	518 Strathcona .....	3,555	3,363
342 Raven .....	1,712	1,447	519 Spruce Grove .....	3,499	3,168
343 Prairie Creek .....	610	528	520 Inga .....	2,851	2,503
344 L.I.D. .....	48	17	521 Tomahawk .....	1,432	602
371 Golden West .....	2,266	2,110	548 Sturgeon .....	4,302	3,706
400 Lorne .....	2,284	2,162	549 Ray .....	3,558	3,261
401 Lochearn .....	2,221	2,052	550 Woodford .....	2,408	2,031
403 L.I.D. .....	347	269	551 Morthen .....	2,224	1,824
430 Blindman .....	1,376	1,439	Indian Reserves .....	336	782
431 Last West .....	1,074	894	Cities .....	79,197	65,163
432 L.I.D. .....	17	9	Edmonton .....	79,197	65,163
433 L.I.D. .....	24	9	Towns .....	5,401	4,914
434 L.I.D. .....	366	324	Beverly .....	1,111	931
460 Columbia .....	1,104	742	Fort Saskatchewan .....	1,001	943
461 L.I.D. .....	712	344	Leduc .....	900	832
462 L.I.D. .....	101	16	Morinville .....	570	562
463 L.I.D. .....	.....	1	St. Albert .....	825	684
464 T. 44-46, R. 13-15, W. 5 .....	.....	.....	Stony Plain .....	497	456
			Tofield .....	497	506

## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1931	1926		1931	1926
<b>Division No. 11—Continued:</b>			<b>Division No. 14—Continued:</b>		
Villages .....	593	264	581 Pershing .....	1,664	939
Alberta Beach .....	38	.....	606 L.I.D. ....	131	63
Hay Lakes .....	125	.....	607 L.I.D. ....	887	525
Onoway .....	149	70	608 Tawatinaw .....	8,147	1,168
Seba Beach .....	41	.....	609 Pibroch .....	2,210	1,660
Spruce Grove .....	76	.....	610 Shoal Creek .....	2,095	1,450
Wabamun .....	164	194	611 L.I.D. ....	406	133
<b>Division No. 12: Edson .....</b>	<b>13,815</b>	<b>10,968</b>	636 L.I.D. ....	217	113
493 L.I.D. ....	4	4	637 Cartier .....	1,273	890
496 L.I.D. ....	902	664	638 Nelson .....	1,486	874
522 Rocky Rapids .....	1,148	343	639 L.I.D. ....	757	393
523 L.I.D. ....	13	4	640 L.I.D. ....	687	278
525 L.I.D. ....	24	29	665 L.I.D. ....	1,130	822
526 L.I.D. ....	116	156	667 L.I.D. ....	1,342	645
527 L.I.D. ....	244	114	668 Grosmont .....	886	466
552 Pembina .....	2,041	1,212	669 L.I.D. ....	79	130
553 L.I.D. ....	728	319	696 L.I.D. ....	144	39
554 L.I.D. ....	685	341	697 L.I.D. ....	499	283
555 L.I.D. ....	655	357	698 L.I.D. ....	40	11
556 L.I.D. ....	274	249	699 L.I.D. ....	357	100
557 L.I.D. ....	.....	.....	726 L.I.D. ....	274	12
558 L.I.D. ....	57	70	727 L.I.D. ....	76	60
582 Kitchener .....	2,340	1,906	728 T. 71-74, R. 22-24, W. 4, N. of Athabasca	.....	.....
583 L.I.D. ....	654	736	R. ....	.....	25
584 L.I.D. ....	543	349	729 L.I.D. ....	120	53
586 T. 56-59, R. 19-22, W. 5, and S.E. of Athabasca R. ....	.....	3	Towns .....	573	435
587 T. 56-58, R. 21-24, W. 5, and W. of Ath- abasca R. and St. Berland R. ....	.....	.....	Athabasca .....	573	435
588 L.I.D. ....	6	.....	Villages .....	1,973	1,625
612 L.I.D. ....	341	254	Barrhead .....	222	.....
Territorial Units 615, 585 .....	12	13	Clyde .....	186	177
Unorganized parts .....	1,133	2,182	Lac la Biche .....	313	437
Towns .....	1,547	1,493	Legal .....	350	308
Edson .....	1,547	1,493	Smoky Lake .....	366	310
Villages .....	348	170	Westlock .....	536	393
Entwistle .....	189	170	<b>Division No. 15: Clearwater</b>	<b>13,664</b>	<b>6,328</b>
Mayerthorpe .....	159	.....	613 L.I.D. ....	53	.....
<b>Division No. 13: Beaver R. ....</b>	<b>24,936</b>	<b>17,174</b>	641 L.I.D. ....	543	161
541 L.I.D. ....	745	492	642 L.I.D. ....	9	2
542 Lincoln .....	933	631	705 L.I.D. ....	24	.....
543 Laurier .....	2,646	2,210	706 L.I.D. ....	270	22
544 Champlain .....	2,257	1,562	707 L.I.D. ....	141	99
571 L.I.D. ....	65	5	708 L.I.D. ....	25	.....
572 Bonnyville .....	1,419	915	709 L.I.D. ....	42	28
573 St. Vincent .....	2,554	1,826	710 L.I.D. ....	78	.....
574 St. Lina .....	817	509	730 L.I.D. ....	175	111
575 Vilna .....	3,756	3,502	731 L.I.D. ....	363	300
601 L.I.D. ....	760	136	732 L.I.D. ....	578	422
602 L.I.D. ....	1,105	314	733 L.I.D. ....	504	307
603 L.I.D. ....	615	160	734 L.I.D. ....	149	22
604 L.I.D. ....	497	161	735 L.I.D. ....	147	3
605 Ashmont .....	1,616	1,327	736 L.I.D. ....	41	2
631 L.I.D. ....	677	350	737 L.I.D. ....	23	2
633 L.I.D. ....	82	33	738 L.I.D. ....	414	77
634 L.I.D. ....	186	111	764 L.I.D. ....	1,333	566
635 L.I.D. ....	568	239	765 L.I.D. ....	1,101	393
663 L.I.D. ....	.....	.....	766 L.I.D. ....	503	58
664 L.I.D. ....	13	14	767 L.I.D. ....	24	1
666 L.I.D. ....	320	146	794 L.I.D. ....	141	54
695 L.I.D. ....	218	66	795 L.I.D. ....	648	307
Territorial Units 632, 661 .....	5	3	796 L.I.D. ....	2,408	1,061
Indian Reserves .....	1,514	1,398	824 L.I.D. ....	10	.....
Villages .....	1,568	1,064	825 L.I.D. ....	215	99
Bellis .....	117	.....	826 L.I.D. ....	891	228
Bonnyville .....	362	.....	855 L.I.D. ....	477	208
St. Paul de Metis .....	938	933	676, 677, 678, 679, 622, 670, and other parts..	47	20
Vilna .....	151	131	Indian Reserves .....	909	843
<b>Division No. 14: Sturgeon ..</b>	<b>39,508</b>	<b>29,062</b>	Towns .....	1,125	930
576 Smoky Lake .....	4,268	4,161	Grouard .....	261	348
577 Unity .....	4,919	4,019	Peace River .....	864	582
578 Opal .....	3,286	2,924	Villages .....	253	.....
579 Hazelwood .....	3,438	2,958	Falher .....	253	.....
580 Lockerbie .....	2,444	1,808	<b>Division No. 16: Peace River</b>	<b>27,945</b>	<b>11,352</b>
			739 Grande Prairie .....	2,389	1,274
			740 Bear Lake .....	2,683	1,802
			741 L.I.D. ....	1,566	638
			742 L.I.D. ....	460	167
			769 L.I.D. ....	514	82
			770 L.I.D. ....	871	236

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1931	1926		1931	1926
<b>Division No. 16—Continued:</b>			<b>Division No. 16—Continued:</b>		
771 L.I.D. ....	1,730	775	917 L.I.D. ....	298	.....
772 L.I.D. ....	1,358	340	919 L.I.D. ....	24	19
797 L.I.D. ....	549	108	Unorganized parts .....	72	.....
800 L.I.D. ....	296	77	Indian Reserves .....	1,068	201
801 L.I.D. ....	167	.....	Towns .....	1,464	917
827 L.I.D. ....	161	3	Grande Prairie .....	1,464	917
828 L.I.D. ....	381	149	Villages .....	1,715	242
829 Spirit River .....	1,800	893	Beaver Lodge .....	211	.....
830 L.I.D. ....	738	77	Clairmont .....	110	75
831 L.I.D. ....	487	34	Fairview .....	260	.....
857 Peace .....	1,990	1,377	Grimshaw .....	137	.....
858 Fairview .....	2,264	1,507	Hythe .....	278	.....
859 L.I.D. ....	519	84	Sexsmith .....	304	.....
886 L.I.D. ....	508	150	Spirit River .....	232	167
887 L.I.D. ....	525	160	Wembley .....	183	.....
888 L.I.D. ....	581	31			
889 L.I.D. ....	425	29	<b>Division No. 17: Athabasca..</b>	<b>5,788</b>	<b>4,841</b>
890 L.I.D. ....	34	.....	Remainder of the Province		
891 L.I.D. ....	77	.....	comprising Northern		
916 L.I.D. ....	231	.....	parts .....	4,312	3,045
			Indian Reserves .....	1,476	1,796



TABLE 1.—GENERAL SUMMARY OF BIRTHS, MARRIAGES AND DEATHS IN DIVISIONS, CITIES AND TOWNS OF 1,000 POPULATION AND OVER 1932

Divisions, Cities and Towns	DEATHS												Stillbirths	Marriages
	Births (Exclusive of Still- births)					All Ages								
	Under 1 year		1-4 years		5 years and over									
	M.	F.	M.	F.	M.	F.	M.	F.						
TOTAL FOR THE PROVINCE														
16990	8713	8277	5521	3248	2273	593	404	143	106	2512	1763	481	5054	
Division No. 1	640	318	322	189	89	17	10	5	1	78	78	24	194	
Division No. 2	1453	735	718	481	215	48	45	16	14	202	156	39	442	
Division No. 3	305	170	135	74	55	8	3	1	1	46	15	7	48	
Division No. 4	426	228	198	129	76	10	8	1	1	65	49	14	65	
Division No. 5	323	158	165	96	57	8	13	2	2	47	24	2	79	
Division No. 6	2822	1486	1386	1151	710	441	96	60	43	571	367	92	1140	
Division No. 7	835	419	416	244	146	98	25	12	3	118	80	20	200	
Division No. 8	1303	684	619	552	323	229	39	33	10	274	191	36	426	
Division No. 9	405	202	203	143	96	47	16	10	3	77	35	10	74	
Division No. 10	1398	753	645	345	184	161	34	5	6	132	121	30	342	
Division No. 11	3235	1642	1593	1196	695	501	119	66	24	552	412	107	1330	
Division No. 12	362	185	177	62	37	25	14	9	1	22	15	12	43	
Division No. 13	828	410	418	211	125	86	43	27	10	72	49	18	176	
Division No. 14	1150	575	575	268	144	124	42	39	2	5	100	32	205	
Division No. 15	496	252	244	135	82	53	27	19	2	53	31	18	95	
Division No. 16	806	409	397	176	109	67	26	10	9	74	52	16	160	
Division No. 17	203	87	116	69	43	26	8	11	6	29	8	4	35	
CITIES:														
Calgary	1726	921	805	748	441	307	53	32	26	7	362	268	869	
Drumheller	260	135	125	48	29	19	7	3	...	1	22	15	68	
Edmonton	2320	1161	1159	921	533	388	73	40	17	13	443	335	1178	
Lethbridge	526	261	265	197	112	85	16	18	7	2	89	65	184	
Medicine Hat	358	184	174	123	66	57	11	5	3	1	52	51	147	
Red Deer	94	53	41	56	35	21	3	1	1	...	31	20	88	
Wetaskiwin	108	60	48	37	19	18	2	2	1	2	16	14	55	
TOWNS:														
Beverly	15	10	5	3	2	1	...	1	...	...	2	...	2	
Blairmore	28	15	13	8	3	5	1	...	1	...	1	5	23	
Camrose	112	61	51	50	24	26	2	4	1	1	21	21	45	
Cardston	152	72	80	29	21	8	5	2	...	...	16	6	71	

TABLE 1.—GENERAL SUMMARY OF BIRTHS, MARRIAGES AND DEATHS IN DIVISIONS, CITIES AND TOWNS OF 1,000 POPULATION AND OVER,  
1932—Continued

Divisions, Cities and Towns	DEATHS										Stillborn	Marriages					
	Births (Exclusive of Still- births)			All Ages			Under 1 year			1-4 years			5 years and over				
	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total			M.	F.	Total	M.	F.
Clareholm	54	33	21	19	9	10	...	...	1	...	...	...	9	...	2	7	
Coleman	43	15	28	9	4	5	...	...	1	...	...	...	4	...	1	31	
Edson	72	35	37	18	12	6	3	...	...	...	...	...	9	...	4	20	
Fort Saskatchewan	46	25	21	10	6	4	...	...	...	...	...	...	5	...	...	16	
Grande Prairie	145	76	69	41	24	17	3	...	...	...	...	...	19	...	5	86	
Hanna	121	58	63	41	23	18	3	...	...	...	...	...	17	...	...	27	
High River	120	64	56	27	12	15	5	...	...	...	...	...	10	...	...	19	
Innisfail	135	58	77	35	25	10	2	...	...	...	...	...	15	...	...	21	
Lacombe	81	43	38	30	20	10	4	...	...	...	...	...	7	...	...	37	
Macleod	57	26	31	19	13	6	1	...	...	...	...	...	11	...	...	27	
Magrath	45	30	15	17	9	8	1	...	...	...	...	...	6	...	...	7	
Olds	82	40	42	15	13	2	4	...	...	...	...	...	5	...	...	23	
Pincher Creek	36	14	22	15	12	3	2	...	...	...	...	...	8	...	...	16	
Raymond	86	46	40	9	7	2	5	...	...	...	...	...	10	...	...	11	
Redcliff	17	11	6	4	3	1	2	...	...	...	...	...	2	...	...	2	
Stettler	68	41	27	31	18	13	2	...	...	...	...	...	13	...	...	47	
Taber	78	40	38	7	6	1	1	...	...	...	...	...	12	...	...	16	
Vegreville	173	101	72	41	20	21	3	...	...	...	...	...	5	...	...	41	
Vermilion	117	66	51	21	14	7	2	...	...	...	...	...	15	...	...	50	
Wainwright	86	50	36	16	8	8	4	...	...	...	...	...	12	...	...	29	

TABLE No. 2—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, 1932

Total	MONTHS											
	January	February	March	April	May	June	July	August	September	October	November	December
	1403	1369	1471	1395	1440	1349	1420	1412	1446	1459	1405	1421
ALBERTA .....	16990	1401	1471	1395	1440	1349	1420	1412	1446	1459	1405	1421
Rural .....	801	781	847	798	818	733	795	783	824	836	813	800
Urban .....	602	588	624	597	622	616	625	629	622	623	592	621
DIVISION No. 1—MEDICINE HAT .....	640	51	57	58	56	56	49	51	55	56	47	58
Rural .....	204	17	18	17	19	16	19	16	14	11	18	19
Urban .....	436	33	37	41	37	40	30	35	41	45	29	39
City of Medicine Hat .....	358	26	32	34	30	35	28	29	33	37	18	30
Town of Taber .....	78	7	5	7	7	5	2	6	8	8	11	9
DIVISION No. 2—MACLEOD .....	1453	116	121	147	111	111	123	126	118	141	104	114
Rural .....	426	34	36	49	41	33	38	29	24	42	32	37
Urban .....	1027	87	80	106	80	78	85	97	94	99	72	77
City of Lethbridge .....	526	49	36	53	41	40	40	52	43	60	32	35
Town of Blairmore .....	28	2	3	3	3	1	2	4	2	4	2	...
Cardston .....	152	12	12	15	13	15	15	10	12	10	14	14
Clareholm .....	54	7	2	7	3	...	8	8	4	2	6	2
Coleman .....	43	1	3	9	2	...	4	3	5	2	2	3
Macleod .....	57	4	5	5	3	3	1	6	10	3	4	8
Magrath .....	45	2	7	3	3	2	5	3	4	5	5	4
Pincher Creek .....	36	3	2	3	5	3	1	2	6	2	1	4
Raymond .....	86	9	3	7	7	7	9	9	8	11	6	7
DIVISION No. 3—BOW .....	305	29	30	24	29	18	30	22	23	34	30	15
Rural .....	288	26	28	24	26	16	28	22	22	32	30	13
Urban .....	17	3	2	...	3	2	2	...	1	2	...	2
Town of Redcliff .....	17	3	2	...	3	2	2	...	1	2	...	2
DIVISION No. 4—NANTON .....	426	28	34	33	31	31	44	43	44	36	26	28
Rural .....	306	34	27	25	25	21	24	30	34	26	15	22
Urban .....	120	14	7	8	6	10	20	13	10	10	11	6
Town of High River .....	120	14	7	8	6	10	20	13	10	10	11	6
DIVISION No. 5—ACADIA .....	323	27	23	35	33	27	26	27	27	20	26	29
Rural .....	202	17	9	18	18	20	15	18	17	14	19	20
Urban .....	121	6	14	17	15	7	11	9	10	6	7	9
Town of Hanna .....	121	6	14	17	15	7	11	9	10	6	7	9

## VITAL STATISTICS BRANCH

TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, 1932—Continued

Total	MONTHS											
	January	February	March	April	May	June	July	August	September	October	November	December
<b>DIVISION No. 6—CALGARY</b>	2822	223	221	228	237	241	243	241	233	235	236	248
Rural	754	54	50	60	64	63	63	68	71	67	65	68
Urban	2068	175	171	168	173	178	180	173	162	168	171	180
City of Calgary	1726	139	158	137	149	147	146	148	144	137	134	144
Drumheller	260	24	12	23	18	20	24	18	15	26	29	21
Town of Olds	82	6	7	8	6	11	10	7	3	5	8	9
<b>DIVISION No. 7—BATTLE RIVER</b>	835	71	64	80	65	67	74	60	90	59	80	68
Rural	749	65	54	75	58	59	66	52	82	54	75	59
Urban	86	6	10	5	7	8	8	8	8	5	5	9
Town of Wainwright	86	10	7	5	7	8	8	8	8	5	5	9
<b>DIVISION No. 8—RED DEER</b>	1303	104	112	116	99	105	116	102	104	134	113	102
Rural	705	62	62	73	49	58	71	47	47	68	60	51
Urban	598	42	50	43	50	47	45	55	57	66	53	51
City of Red Deer	94	8	6	8	5	10	6	11	8	12	8	6
Wetaskiwin	108	6	12	11	10	6	8	11	10	8	10	11
Town of Camrose	112	6	11	4	9	9	11	8	11	16	10	9
Innisfail	135	10	11	10	15	11	7	12	13	12	10	12
Lacombe	81	5	4	7	8	7	8	8	7	9	8	5
Stettler	68	7	6	3	3	4	5	5	8	9	7	2
<b>DIVISION No. 9—ROCKY MOUNTAIN HOUSE</b>	405	40	35	39	28	41	33	29	30	32	29	29
Rural	405	40	40	39	28	41	33	29	30	32	29	29
<b>DIVISION No. 10—VICTORIA</b>	1398	98	112	107	148	102	113	117	133	122	116	100
Rural	1108	75	99	83	118	76	88	86	107	99	100	70
Urban	290	23	13	24	30	26	25	31	26	23	16	30
Town of Vegreville	173	10	8	10	21	11	15	18	20	16	12	23
Vermilion	117	13	13	15	9	15	10	13	6	7	4	7
<b>DIVISION No. 11—EDMONTON</b>	3235	267	305	234	280	262	273	254	264	236	283	285
Rural	854	54	82	66	77	63	68	71	72	63	70	80
Urban	2381	204	223	168	203	199	205	183	192	173	213	205
City of Edmonton	2320	196	215	166	195	197	203	177	187	167	210	201
Town of Beverly	15	1	1	....	1	1	....	3	1	2	1	1
Fort Saskatchewan	46	6	7	2	7	1	2	3	4	4	2	3



[illegible]

## VITAL STATISTICS BRANCH

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5,000 POPULATION AND OVER, 1932

Province and Cities	Total Births			Legitimate			Illegitimate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province.....	16990	8713	8277	16385	8409	7976	605	304	301
Cities:									
Calgary .....	1726	921	805	1619	871	748	107	50	57
Edmonton .....	2320	1161	1159	2073	1036	1037	247	125	122
Lethbridge .....	526	261	265	515	256	259	11	5	6
Medicine Hat .....	358	184	174	353	181	172	5	3	2

TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, 1932

Classification of Births	Total
CASES OF TWINS .....	233
Two males (both living) .....	67
One male and one female (both living) .....	71
Two females (both living) .....	72
One male living and one male stillborn .....	5
One male living and one female stillborn .....	2
One male stillborn and one female living .....	6
One female living and one female stillborn .....	3
Two males (both stillborn) .....	2
One male and one female (both stillborn) .....	2
Two females (both stillborn) .....	3
CASES OF TRIPLETS .....	3
Three males (all living) .....	1
Three females (all living) .....	2
Total multiple births .....	475
Male .....	232
Female .....	243
Total single living births .....	16545
Male .....	8498
Female .....	8047
Total single stillbirths .....	451
Male .....	262
Female .....	189
Total confinements .....	17232



## VITAL STATISTICS BRANCH

TABLE 5.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO BIRTHPLACE OF PARENTS, 1932—Continued

Birthplace of Father	Birthplace of Mother																																				
	Canada										British Isles					British Possessions					Europe										Asia			United States	Various	Not Specified	
	P. E. Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Prov. not specified	England	Ireland	Scotland	Wales	Other	Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia	Sweden	Other	China				Japan
Hungary	171	...	...	1	...	...	1	6	2	...	4	...	2	...	...	...	1	2	...	...	1	...	...	...	...	145	...	...	...	1	2	...	9	...	...	5	
Italy	80	...	...	...	...	...	...	9	4	...	9	...	4	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	5
Norway	235	1	...	...	...	...	...	38	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	41
Poland	1532	...	...	...	...	...	...	241	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
Roumania	483	...	...	1	...	...	...	118	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
Russia	979	...	...	...	...	...	...	133	1	...	5	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	86
Sweden	205	1	...	...	...	...	...	35	...	...	10	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
Other	380	1	...	2	1	...	...	41	4	...	10	...	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
ASIA	54	1	...	...	...	...	...	4	4	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
China	19	1	...	...	...	...	...	3	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Japan	29	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	6	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
United States	2887	4	31	9	196	85	80	664	33	...	165	15	68	16	...	...	...	8	2	12	3	2	28	7	1	1	33	14	11	59	23	8	...	...	...	1246	
Various	6	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Not specified	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Children born to married mothers	16385	37	162	75	405	993	537	489	4277	147	31325	201	641	102	3	9	24	333	38	127	23	34	217	61	159	51	178	1415	292	825	136	297	11	26	6	2713	
Children born to unmarried mothers	605	...	...	3	5	26	19	38	309	10	...	24	8	10	2	...	...	5	...	3	1	2	5	1	3	...	...	...	...	...	...	...	...	...	...	...	54
Children born to all mothers	16990	37	162	78	410	1019	556	527	4586	157	31349	209	651	104	3	9	24	388	38	130	24	36	222	62	162	51	183	1450	300	840	141	303	11	26	6	2767	





TABLE 6—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO AGES OF PARENTS, 1932—Continued

Age of Father	AGE OF MOTHER																				50 & over	Not stated																		
	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	
Total	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45 <td>46</td> <td>47</td> <td>48</td> <td>49</td> <td></td>	46	47	48	49			
54 years .....	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
55 ..	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	2	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
56 ..	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
57 ..	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
58 ..	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
59 ..	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
60 ..	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
61 ..	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
62 ..	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
63 ..	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
64 ..	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
65 and over ..	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Not stated ..	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Children born to married mothers .....	16,385	—	1	26	127	325	562	697	851	999	995	976	1051	981	917	929	830	799	586	751	479	524	491	434	387	410	313	267	163	182	122	94	47	30	11	9	2	—	17	
Children born to unmarried mothers .....	605	1	5	2	16	39	68	75	75	56	52	38	27	23	22	20	7	12	10	7	4	3	4	3	5	6	4	8	5	3	1	1	1	—	—	—	—	—	2	
Children born to all mothers .....	16,990	1	5	3	42	166	393	637	772	907	1051	1033	1003	1074	1003	937	936	842	809	593	755	482	528	494	439	393	414	321	272	166	183	123	95	47	30	11	9	2	—	19







TABLE 8.—TOTAL BIRTHS (EXCLUSIVE OF STILLBIRTHS) AND BIRTHS IN PUBLIC INSTITUTIONS SHOWING THE NUMBER OF MOTHERS NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1932

	All Births		In Public Institutions	
	Total	Births to Mothers Non-resident in Province	Total	Births to Mothers Non-resident in Province
Total for the Province .....	16,990	126	8,031	94

TABLE 9.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) TO RESIDENT AND NON-RESIDENT MOTHERS AND BIRTHS IN PUBLIC INSTITUTIONS IN CITIES OF 5,000 POPULATION AND OVER, 1932

Cities	All Births				Births in Public Institutions				Births elsewhere than in Public Institutions			
	Total	To Mothers Resident in Province	To Mothers Non-resident in City where birth occurred and	Non-resident in Province	Total	To Mothers Resident	To Mothers Non-resident in City where birth occurred and	Non-resident in Province	Total	To Mothers Resident	To Mothers Non-resident in City where birth occurred and	Non-resident in Province
Calgary .....	1726	1444	269	13	1373	1113	249	11	353	331	20	2
Edmonton .....	2320	1544	733	43	2075	1333	702	40	245	211	31	3
Lethbridge .....	526	266	258	2	448	197	249	2	78	69	9	—
Medicine Hat .....	358	175	166	17	284	127	144	13	74	48	22	4

## VITAL STATISTICS BRANCH

TABLE 10—ORDER OF BIRTH OF LEGITIMATE CHILDREN BORN IN 1932 (INCLUDING STILLBORN CHILDREN),  
BY AGE OF MOTHER

Order of birth of Children	Total	Age of Mother										Age not stated			
		Under 15 yrs.	15 years	16 years	17 years	18 years	19 years	20-24 years	25-29 years	30-34 years	35-39 years		40-44 years	45 years and over	
Total	16840	—	1	27	130	330	577	1065	4592	4818	3231	2129	876	109	20
1st child	4120	—	1	24	124	271	420	840	1889	981	282	100	25	2	1
2nd "	3733	—	—	3	6	57	143	209	1565	1220	534	159	39	1	6
3rd "	2536	—	—	—	—	1	12	13	745	995	511	210	58	3	1
4th "	1890	—	—	—	—	—	2	8	266	743	519	282	70	5	2
5th "	1336	—	—	—	—	—	—	—	89	420	466	260	97	3	1
6th "	899	—	—	—	—	—	—	—	22	254	313	220	84	6	10
7th "	697	—	—	—	—	—	—	—	6	126	259	220	76	10	1
8th "	501	—	—	—	—	—	—	—	1	51	160	197	81	10	1
9th "	380	—	—	—	—	—	—	—	2	18	101	162	87	12	1
10th "	265	—	—	—	—	—	—	—	—	3	41	134	73	11	1
11th "	177	—	—	—	—	—	—	—	—	2	20	75	62	18	1
12th "	124	—	—	—	—	—	—	—	1	1	10	48	54	10	1
13th "	70	—	—	—	—	—	—	—	—	2	6	31	26	5	1
14th "	44	—	—	—	—	—	—	—	—	—	3	17	21	3	1
15th "	22	—	—	—	—	—	—	—	—	—	—	6	8	8	1
16th "	10	—	—	—	—	—	—	—	—	—	1	4	5	—	—
17th "	11	—	—	—	—	—	—	—	—	—	—	4	7	—	—
18th "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19th "	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20th and over	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1
Not stated	22	—	—	—	—	—	—	—	6	2	5	—	2	—	7

TABLE 11.—INFANTILE DEATH RATES, ETC., BY DIVISIONS AND CITIES, 1932

Divisions and Cities	Death rate of children under 1 year of age to each 1000 births			Births with or without physician in attendance		Rate of stillborn children to each 1000 births	
	Rate per 1000 births	Number of deaths	Total births	With physician	Without physician	Number of stillbirths	Rate per 1000 births
Division No. 1—Medicine Hat (City of Medicine Hat excepted).....	39.0	11	282	169	113	12	42.6
Division No. 2—Macleod (City of Lethbridge excepted).....	63.6	59	927	731	196	21	22.7
Division No. 3—Bow .....	36.1	11	305	232	73	7	23.0
Division No. 4—Nanton .....	30.5	13	426	379	47	14	52.9
Division No. 5—Acadia .....	65.0	21	323	235	88	2	6.2
Division No. 6—Calgary (Cities of Calgary and Drumheller excepted)...	73.0	61	836	660	176	26	31.1
Division No. 7—Battle River .....	44.3	37	835	738	97	20	24.0
Division No. 8—Red Deer (Cities of Red Deer and Wetaskiwin excepted)	58.1	64	1101	875	226	24	21.8
Division No. 9—Rocky Mountain .....	64.2	26	405	306	99	10	24.7
Division No. 10—Victoria .....	78.7	81	1398	826	572	30	21.5
Division No. 11—Edmonton (City of Edmonton excepted) .....	63.5	72	915	521	394	21	23.0
Division No. 12—Edson .....	84.5	23	362	156	206	12	33.1
Division No. 13—Beaver River .....	70.4	70	828	346	482	18	21.7
Division No. 14—Sturgeon .....	92.7	81	1150	508	641	32	27.8
Division No. 15—Clearwater .....	44.7	46	496	267	229	18	36.3
Division No. 16—Peace River .....	93.6	36	806	467	339	16	19.9
Division No. 17—Athabasca .....	48.7	19	203	50	153	4	19.7
City of Edmonton .....	49.2	113	2320	2283	37	86	37.1
City of Calgary .....	49.2	85	1726	1717	9	60	34.8
City of Lethbridge .....	64.6	34	526	513	13	18	34.2
City of Medicine Hat .....	44.7	16	358	335	23	12	33.5
City of Red Deer .....	42.6	4	94	93	1	8	85.1
City of Wetaskiwin .....	37.0	4	108	107	1	4	37.0
City of Drumheller .....	38.5	10	260	260	—	6	23.1
Divisions .....	63.0	731	11598	7466	4131	287	24.7
Cities .....	49.3	266	5392	5308	84	194	36.0
Whole Province .....	58.7	997	16990	12774	4215	481	28.3





[illegible]



[illegible]

TABLE 14.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS OF CHILDREN UNDER 1 YEAR OF AGE, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS IN CITIES OF 5,000 POPULATION AND OVER, 1932

Cities	All Deaths under one year										Deaths in Public Institutions										Deaths elsewhere than in Public Institutions												
	Total					Residents					Non-resident in City where death occurred and					Total					Residents					Non-resident in City where death occurred and							
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female			
Calgary .....	85	53	32	74	47	27	10	5	5	1	1	—	59	37	22	49	31	18	9	5	4	1	1	—	26	16	10	25	16	9	1	—	—
Edmonton .....	113	73	40	79	55	24	34	18	16	—	—	—	97	60	37	65	44	21	32	16	16	—	—	—	16	13	8	14	11	8	2	2	—
Lethbridge .....	34	16	18	21	11	10	13	5	8	—	—	—	24	9	15	11	4	7	13	5	8	—	—	—	10	7	3	10	7	3	—	—	—
Medicine Hat .....	16	11	5	8	5	3	8	6	2	—	—	—	12	8	4	4	2	2	8	6	2	—	—	—	4	3	1	4	3	1	—	—	—

TABLE 15.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS OF CHILDREN UNDER 1 YEAR OF AGE, SHOWING THE NUMBER NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1932

	All Deaths under one year						In Public Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for Province .....	997	593	404	3	3	—	397	244	153	2	2	—



TABLE 16—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1932—TRANSFERRED TO REGULAR RESIDENCE

## DIVISION No. 1—MEDICINE HAT

Municipality No.	Population, 1932	Number of Births	Birth Rate per 1,000 population	Number of Deaths	Death Rate per 1,000 population	Number of Deaths (under 1 year)	Infant Mortality Rate per 1,000 births	Stillbirths	Typhoid and paratyphoid	Measles	Scarlet fever	Whooping cough	Diphtheria	Influenza	Acute poliomyelitis	Meningococcal Meningitis	Pulmonary tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)		
1	90	—	—	1	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1	
2	128	3	23	1	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3	152	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4	531	10	19	3	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5	1120	32	29	12	10	3	94	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6	718	20	28	9	13	1	50	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
31	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
32	595	17	28	6	10	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
33	488	8	17	1	2	2	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
34	808	27	33	5	6	1	37	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
35	310	2	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
36	1260	44	35	14	11	3	68	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
61	818	18	22	3	4	3	167	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
62	694	10	14	3	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
63	573	6	10	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
64	1062	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
65	1167	13	11	3	3	1	83	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
66	2203	100	45	15	7	2	20	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
91	1172	59	50	8	7	2	34	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
92	926	29	31	9	3	3	103	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
93	873	26	30	7	8	2	77	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
94	634	20	31	6	9	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total	16360	447	27.3	107	6.5	22	50.0	23	—	—	—	—	—	6	—	—	—	1	1	10	4	—	2	12	6	5	2	—	4	5	2	8	—
Death Rate per 100,000 population														37			6	6	61	24	12		73	37	31	12	—	24	31	12	49		



[illegible]

DIVISION No. 4—NANTON

97	2310	41	18	9	4	1	24	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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## VITAL STATISTICS BRANCH

TABLE 16—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1932—TRANSFERRED TO REGULAR RESIDENCE—Continued

## DIVISION No. 5—ACADIA

Municipality No.	Population, 1932	Number of Births	Birth Rate per 1,000 population	Number of Deaths	Death Rate per 1,000 population	Number of Deaths (under 1 year)	Infant Mortality Rate per 1,000 births	Stillbirths	Typhoid and paratyphoid	Measles	Scarlet fever	Whooping cough	Diphtheria	Influenza	Acute poliomyelitis	Meningococic Meningitis	Pulmonary tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)	
212	710	4	6	1	1	1	167	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
213	404	6	15	2	5	1	167	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
214	583	9	15	2	6	2	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
215	318	6	19	2	6	2	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
216	1046	14	13	6	6	2	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
217	1167	33	28	11	9	3	91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
218	807	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
219	730	12	16	5	7	1	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
220	615	4	7	1	2	1	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
221	1189	30	25	4	3	1	36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
222	1206	15	12	4	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
223	1259	24	19	4	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
224	775	24	31	12	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
225	800	9	11	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
226	1188	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
227	2190	28	13	6	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
228	814	6	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
229	942	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
230	1214	15	12	3	3	1	67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
231	1806	11	14	4	5	2	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
232	1610	94	58	29	18	6	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
233	1700	46	27	16	9	3	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
234	1474	28	19	7	5	1	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total	23547	421	17.9	118	5.0	21	51.3	4	—	—	—	1	—	9	—	—	8	2	9	2	—	—	2	10	10	4	4	—	6	6	1	5
Death Rate per 100,000 population				—	—	—	—	—	—	—	—	4	—	38	—	—	34	8	38	8	—	—	8	42	42	17	17	—	25	25	4	21







[illegible]

DIVISION No. 9—ROCKY MOUNTAIN HOUSE

[illegible]

DIVISION No. 10—VICTORIA

TABLE 16—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1932—TRANSFERRED TO REGULAR RESIDENCE—Continued

## DIVISION No. 10—VICTORIA—Continued

Municipality No.	Population, 1932	Number of Births	Birth Rate per 1,000 population	Number of Deaths	Death Rate per 1,000 population	Number of Deaths (under 1 year)	Infant Mortality Rate per 1,000 births	Stillbirths	Typhoid and paratyphoid	Measles	Scarlet fever	Whooping cough	Diphtheria	Influenza	Acute poliomyelitis	Meningococcal Meningitis	Pulmonary tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)		
486	3116	87	28	30	10	4	47	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	1	3	—	6	—	—	2	1	—	—	—
511	2299	42	18	11	5	1	24	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	—	1	—	—	—	—	—	—	—
512	3123	83	27	25	8	2	25	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	1	—	1	—	—	—	—	—	—	—
513	3381	122	36	14	4	1	8	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—
514	3411	190	56	22	6	6	67	4	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
515	3432	149	43	32	9	6	40	1	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—
516	3669	161	44	47	13	14	90	4	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—
545	4248	141	33	30	7	8	58	2	—	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—
546	4742	120	25	27	6	9	75	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—
547	3899	118	30	39	10	10	85	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—
Total.....	51930	1525	29.4	362	6.9	78	51.9	34	—	—	—	—	2	19	—	—	13	4	31	1	—	—	9	51	13	24	14	1	7	11	1	26	
Death Rate per 100,000 population.....																																	
													4	37	—	—	25	8	60	2	2	17	98	25	46	27	2	13	21	2	50		

## DIVISION No. 11—EDMONTON

487	2865	107	38	25	9	8	76	4	—	—	—	—	—	1	—	—	—	2	—	2	1	—	1	1	1	3	—	—	—	—	—	—	2	
488	3857	174	19	22	6	6	82	3	—	—	—	—	—	2	—	—	—	—	3	1	—	—	3	1	1	3	—	—	—	—	—	—	—	
489	4862	154	32	54	11	12	79	5	—	—	—	—	—	2	—	—	—	—	6	4	—	—	2	4	2	2	—	—	—	—	—	—	—	
490	2670	98	37	26	10	8	82	4	—	—	—	—	—	—	1	—	—	3	2	1	—	1	1	1	1	4	—	—	—	—	—	—	—	
491	939	25	27	3	3	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
517	2856	88	31	33	12	4	46	1	—	—	—	—	1	3	—	—	—	1	2	4	—	—	3	6	1	2	1	—	—	—	—	—	—	
518	3609	57	16	14	4	3	53	1	—	—	—	—	—	3	—	—	—	—	—	1	—	—	1	1	1	1	—	—	—	—	—	—	—	
519	3566	65	18	19	5	5	77	5	—	—	—	—	—	1	—	—	—	—	1	1	—	—	4	2	2	3	—	—	—	—	—	—	—	—
520	2966	80	27	23	8	4	51	2	—	—	—	—	—	2	—	—	—	—	1	1	—	—	3	3	2	1	—	—	—	—	—	—	—	—
521	1506	76	50	14	9	7	93	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	2	2	2	1	—	—	—	—	—	—	—	—
548	4373	89	20	31	7	5	57	1	—	—	—	—	—	1	—	—	—	3	4	1	—	—	1	1	3	1	—	—	—	—	—	—	—	—

[illegible]

## DIVISION No. 12—EDSON

[illegible]

## DIVISION No. 13—BEAVER RIVER

[illegible]



## VITAL STATISTICS BRANCH

TABLE 16—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1932—TRANSFERRED TO REGULAR RESIDENCE—Continued

DIVISION No. 13—BEAVER RIVER—Continued

Municipality No.	Population, 1932	Number of Births	Birth Rate per 1,000 population	Number of Deaths	Death Rate per 1,000 population	Number of Deaths (under 1 year)	Infant Mortality Rate per 1,000 births	Stillbirths	Typhoid and paratyphoid	Measles	Scarlet fever	Whooping cough	Diphtheria	Influenza	Acute poliomyelitis	Meningococcic Meningitis	Pulmonary tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)	
574 .....	842	26	31	4	5	18	—	3	—	—	—	1	1	1	—	—	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—	
575 .....	3926	122	31	26	7	2	105	3	—	—	—	1	—	—	—	—	—	—	4	—	—	—	—	—	—	—	—	—	—	—	—	
576 .....	765	19	25	3	4	2	61	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
601 .....	1148	34	30	8	7	2	91	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	
602 .....	623	11	18	2	3	1	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
603 .....	1860	18	35	4	8	1	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
604 .....	516	18	35	4	8	2	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
605 .....	1660	46	28	14	8	2	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
606 .....	805	28	35	14	8	2	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
631 .....	708	19	27	4	6	1	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
632 .....	82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
633 .....	333	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
634 .....	186	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
635 .....	571	6	11	3	5	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
661 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
663 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
664 .....	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
666 .....	332	9	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
695 .....	218	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total.....	22714	688	30.3	150	6.6	50	72.7	15	—	—	—	2	—	4	1	—	7	2	15	2	—	—	1	12	5	14	4	1	4	3	3	4
Death Rate per 100,000 population.....														18	4	—	31	9	66	9	—	4	53	22	61	18	4	18	13	13	18	

## DIVISION No. 14—STURGEON

576 .....	4427	143	32	33	7	12	86	4	—	—	—	—	—	1	—	—	—	—	1	—	—	—	1	5	—	3	2	—	2	—	—	1
577 .....	5182	162	31	58	11	16	99	4	—	—	—	—	—	—	—	—	—	—	4	—	—	—	2	11	6	1	—	—	3	—	—	6
578 .....	3330	47	14	10	3	5	106	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
579 .....	3579	132	37	28	8	6	45	3	—	—	—	—	—	2	—	—	1	1	—	2	—	—	1	2	2	2	2	—	2	—	—	2

[illegible]

DIVISION No. 15—CLEARWATER

## VITAL STATISTICS BRANCH

TABLE 16—POPULATION, BIRTHS, DEATHS, RATES, AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1932—TRANSFERRED TO REGULAR RESIDENCE—Continued

[illegible]

[illegible]

DIVISION No. 17--ATHABASCA

Remainder of Province comprising northern parts (including Indians):

[illegible]

## CITIES

[illegible]





[illegible]



[illegible]



[illegible]





CLASS	VII.—DISEASES OF THE CIRCULATORY SYSTEM	Total	Male	Female	1	3	1	1	3	11	15	7	11	20	13	34	46	64	77	111	132	184	139	109	43	15	5
90-95	Diseases of the heart	1045	483	279	1	3	1	1	3	11	15	7	11	20	13	34	46	64	77	111	132	184	139	109	43	15	5
90	Pericarditis	396	183	213	1	2	1	1	2	5	8	4	6	11	9	20	33	46	51	75	83	111	84	61	31	2	1
91	Acute endocarditis	483	279	204	1	2	1	1	2	6	7	3	6	10	7	17	30	39	40	56	55	82	63	36	19	6	2
	(a) Specified as acute	396	183	213	1	2	1	1	2	5	8	4	6	11	9	20	33	46	51	75	83	111	84	61	31	2	1
	(b) Unspecified (under 45 years of age)	89	96	91	1	1	1	1	1	6	7	3	4	9	4	14	13	18	26	36	49	73	55	48	12	9	3
92	Chronic endocarditis, valvular diseases	141	63	78	1	1	1	1	1	6	7	3	6	10	7	17	30	39	40	56	55	82	63	36	19	6	2
	(a) Endocarditis specified as chronic and other valvular diseases of the heart	139	63	76	1	1	1	1	1	6	7	3	6	10	7	17	30	39	40	56	55	82	63	36	19	6	2
	(b) Endocarditis, unspecified, 45 years and over	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
93	Diseases of the myocardium	161	134	27	1	1	1	1	1	1	2	1	2	1	1	2	10	8	10	15	15	33	21	24	11	4	—
	(a) Acute myocarditis	134	91	43	1	1	1	1	1	1	2	1	1	1	1	6	1	7	5	13	12	35	16	25	6	3	—
	(b) Myocarditis, unspecified, under 45 years	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	—	
	(c) Chronic myocarditis and myocardial degeneration	131	110	21	1	1	1	1	1	1	1	1	1	1	2	1	8	6	9	10	13	27	20	19	9	4	
	(d) Myocarditis, unspecified, 45 years and over	21	19	2	1	1	1	1	1	1	2	1	1	1	1	6	2	2	1	4	3	5	2	4	2	—	
94	Diseases of the coronary arteries and angina pectoris	118	41	77	1	1	1	1	1	1	1	1	1	2	1	7	11	11	17	16	19	18	13	2	1	—	
	(a) Diseases of the coronary arteries	118	41	77	1	1	1	1	1	1	1	1	1	2	1	7	11	11	17	16	19	18	13	2	1	—	
	(b) Embolism and thrombosis of coronary arteries	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2	2	3	2	2	—	—	
	(c) Angina pectoris	73	28	45	1	1	1	1	1	1	1	1	1	2	1	6	8	10	12	6	13	11	5	1	1	—	
	(d) Other diseases of the heart	34	11	23	1	1	1	1	1	1	1	1	1	2	1	1	3	1	5	6	4	5	5	1	—	—	
95	Other diseases of the heart	50	31	19	1	1	1	1	1	1	1	1	1	1	1	1	1	2	6	5	6	5	10	4	3	—	
	(a) Functional diseases of the heart	31	18	13	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	4	1	8	7	2	1	2	
	(b) Others not specified	4	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	—	—	—	
96	Aneurysm (other than of the heart)	47	27	20	1	1	1	1	1	1	1	1	1	1	1	1	2	6	2	6	5	6	9	4	2	1	
	(a) Aneurysm of the heart	27	11	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	6	7	2	1	2	—	
	(b) Aneurysm of other organs	20	16	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	2	1	—	—	—	



[illegible]

## CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM..

115	(a) Diseases of the buccal cavity and annæa.....	Male
	(b) Diseases of the tonsils .....	Male
	(c) Other diseases of the pharynx .....	Female
116	Diseases of the oesophagus .....	Male
117	(a) Ulcer of the stomach .....	Female
	(b) Ulcer of the duodenum .....	Male
118	Other diseases of the stomach .....	Female
119	Diarrhoea and enteritis (under 2 years of age) ..	Male
120	(a) Diarrhoea and enteritis (2 years and over) ..	Female
	(b) Ulceration of the intestines (2 years and over) ..	Female
121	Appendicitis .....	Male
122	(a) Hernia .....	Male
		Female





[illegible]



[illegible]



[illegible]

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), 1932

[illegible]



TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1932

CAUSES OF DEATH	Conjugal Condition												Nativity					
	Total	Single						Married						Canada	British	Foreign		
		Under 15 yrs.						Not Stated	15-24 years	25-44 years	45-64 years	65 years and over	Widowed			U.S.A.	Others	
DEATHS—ALL CAUSES	Total .....	5521	1497	282	199	178	162	—	62	512	929	801	899	2996	974	545	976	30
Male .....	3248	879	170	165	154	130	—	—	13	215	577	540	406	1730	570	317	601	30
Female .....	2273	618	112	34	24	32	—	—	50	297	352	261	493	1266	404	228	375	—
CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total .....	871	287	100	52	33	13	—	21	110	99	67	89	562	120	54	133	2
1 Typhoid fever .....	Male .....	512	161	61	40	28	10	—	3	53	74	47	35	319	71	30	90	—
5 Undulant fever .....	Female .....	359	126	39	12	5	3	—	18	57	25	20	54	243	49	24	43	—
6 Smallpox .....	Male .....	5	—	1	2	—	—	—	—	1	1	—	—	—	—	2	3	—
7 Measles .....	Female .....	4	1	1	1	—	—	—	—	—	—	—	—	3	1	—	1	—
8 Scarlet fever .....	Male .....	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
9 Whooping-cough .....	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10 Diphtheria .....	Male .....	10	10	—	—	—	—	—	—	—	—	—	—	10	—	—	—	—
11 Influenza .....	Female .....	4	3	1	—	—	—	—	—	—	—	—	—	4	—	—	—	—
(a) Sole cause .....	Male .....	1	1	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—
(b) With bronchitis .....	Female .....	3	2	—	—	—	—	—	1	—	—	—	—	2	—	—	—	—
(c) With pneumonia .....	Male .....	16	16	—	—	—	—	—	—	—	—	—	—	16	—	—	—	—
(d) With other respiratory diseases .....	Female .....	18	18	—	—	—	—	—	—	—	—	—	—	18	—	—	—	—
(e) With intestinal complications .....	Male .....	8	7	1	—	—	—	—	—	—	—	—	—	8	—	—	—	—
	Female .....	2	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—
	Total .....	166	41	17	5	9	5	—	1	10	26	33	19	99	31	11	25	—
	Male .....	131	41	5	—	4	3	—	—	11	7	18	40	79	25	11	16	—
	Female .....	23	13	5	1	—	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	23	8	—	—	—	—	—	—	1	1	5	7	16	5	1	1	—
	Female .....	3	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	7	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	76	16	6	4	7	1	—	1	6	13	14	8	44	15	5	12	—
	Male .....	48	13	4	—	—	—	—	1	7	2	7	13	26	11	6	5	—
	Female .....	10	3	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	6	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
	Female .....	7	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	16	12	1	—	—	—	—	—	1	2	1	1	5	1	—	1	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(f) With other causes		47	5	6	1	2	3	4	10	12	7	21	11	5	10
13	Dysentery	Male .....	31	5	—	—	3	1	1	5	15	16	6	4	5
15	Erysipelas	Male .....	3	1	—	—	—	—	—	1	1	1	1	1	—
16	Poliomyelitis and polioencephalitis (acute)	Male .....	9	3	1	2	—	—	2	—	1	6	2	—	1
17	Epidemic or lethargic encephalitis	Female .....	4	2	—	—	—	—	—	—	1	10	—	—	—
18	Epidemic cerebrospinal meningitis	Female .....	1	1	—	—	—	—	—	—	—	—	—	—	—
23-32	Tuberculosis	Male .....	2	3	1	—	—	—	—	—	—	5	—	—	—
23	Tuberculosis of the respiratory system	Male .....	236	59	39	29	13	37	33	11	10	140	29	15	51
24	Tuberculosis of the meninges and central nervous system	Female .....	165	47	29	9	12	44	11	8	9	115	79	10	21
25	Tuberculosis of the intestines and peritoneum	Male .....	181	34	31	24	1	35	24	8	9	103	25	14	39
26	Tuberculosis of the vertebral column	Female .....	182	30	22	8	1	37	10	—	9	92	16	8	16
27a	Tuberculosis of the bones (vertebral column excepted)	Male .....	22	17	2	1	—	1	2	—	—	19	1	—	2
28	Tuberculosis of the skin and sub-cutaneous cellular tissue	Female .....	15	10	3	1	—	—	1	1	1	13	1	—	1
29	Tuberculosis of the lymphatic system (mesenteric, retro-peritoneal and bronchial glands excepted)	Male .....	6	2	1	—	—	4	2	1	—	3	3	—	2
30	Tuberculosis of the genito-urinary system	Female .....	8	2	1	—	—	1	1	—	—	3	2	—	1
31	Tuberculosis of other organs	Male .....	2	2	—	—	—	—	—	—	—	1	—	—	—
32	(a) Disseminated tuberculosis, acute	Female .....	1	—	—	1	—	—	—	—	—	—	—	—	—
33	(b) Disseminated tuberculosis, chronic	Male .....	4	1	1	1	—	1	—	—	—	1	3	—	1
34	(c) Disseminated tuberculosis, not specified	Female .....	5	1	2	—	—	2	2	—	—	4	—	—	1
35	Syphilis	Male .....	1	—	1	—	—	—	—	—	—	—	—	—	—
36	Gonococcus infection and other venereal diseases	Female .....	24	4	—	3	—	2	6	1	4	11	5	1	6
38	Malaria	Male .....	5	3	—	—	—	1	1	—	1	1	—	—	—
42	Other diseases caused by helminths	Female .....	14	5	—	1	—	1	4	2	—	9	3	—	2
44	(a) Chicken-pox	Male .....	7	—	1	—	—	1	2	1	2	3	2	—	1
		Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
		Male .....	1	1	—	—	—	—	—	—	—	1	—	—	—
		Female .....	2	1	1	—	—	—	—	—	—	2	—	—	—

TABLE 18—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY FOR THE WHOLE PROVINCE, 1932—Continued

CAUSES OF DEATH	Conjugal Condition										Nativity					
	Total	Under 15 years	Single					Married			Widowed	Canada	Foreign		Not Stated	
			15-24 years	25-44 years	45-64 years	65 years and over	Not Stated	15-24 years	25-44 years	45-64 years			65 years and over			
(b) German measles .....	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(c) Other infectious or parasitic diseases.....	Female .....	1	1	—	—	—	—	—	—	—	—	1	—	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—
	Total .....	582	9	7	15	21	20	2	72	191	125	208	151	80	143	—
CLASS II.—CANCER AND OTHER TUMOURS .....	Male .....	295	2	6	11	16	17	1	25	93	77	101	76	39	79	—
	Female .....	287	7	1	4	5	3	1	47	98	48	73	107	41	64	—
45-53 Cancer and other malignant tumours.....	Male .....	282	2	5	10	14	15	1	22	91	76	94	71	38	79	—
45 Cancer of the buccal cavity and pharynx .....	Female .....	257	5	1	2	5	3	—	33	92	48	68	68	38	55	—
	Male .....	10	—	—	—	—	—	—	—	—	—	3	4	1	2	—
46 (a) Of the oesophagus .....	Female .....	5	—	—	—	—	—	—	—	—	—	1	3	—	1	—
(b) Of the stomach and duodenum .....	Male .....	6	—	—	—	—	—	—	—	—	—	1	3	—	2	—
(c) Of the rectum .....	Female .....	7	—	—	—	—	—	—	—	—	—	2	2	—	3	—
(d) Of the liver and biliary ducts .....	Male .....	90	—	—	3	6	4	—	7	33	26	11	22	13	35	—
(e) Of the pancreas .....	Female .....	50	—	—	1	—	—	—	1	21	9	17	15	9	14	—
(f) Of the peritoneum.....	Male .....	14	—	—	—	2	—	—	—	5	4	3	3	2	1	—
(g) Of other organs .....	Female .....	11	—	—	—	—	—	—	—	6	3	2	3	1	4	—
(a) Of the larynx .....	Male .....	21	—	1	—	—	—	—	1	6	6	6	9	1	2	—
(b) Of the lung .....	Female .....	18	—	—	—	—	—	—	3	5	6	4	7	1	8	—
(c) Of the mediastinum .....	Male .....	9	—	—	—	—	—	—	—	4	2	3	2	2	—	—
(d) Of other organs of the respiratory system.....	Female .....	3	—	—	—	—	—	—	—	1	1	—	1	—	—	—
(a) Of the uterus .....	Male .....	34	—	2	1	1	—	1	6	7	10	5	10	3	9	—
	Female .....	26	—	—	—	—	—	—	4	10	5	7	4	2	8	—
	Male .....	2	—	—	—	—	—	—	—	—	2	2	2	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	2	1	—	—	—
	Male .....	9	—	—	1	—	—	—	1	2	3	2	2	2	3	—
	Female .....	3	—	—	—	—	—	—	1	1	—	1	1	—	1	—
	Male .....	3	—	—	1	—	—	—	1	1	—	—	2	—	1	—
	Female .....	2	—	—	—	—	—	—	—	—	—	2	1	—	1	—
	Total .....	25	—	—	—	1	—	—	4	11	3	6	9	8	8	—

(b) Of the cervix uteri .....	Female ..	15	—	—	—	—	—	—	—	—	5	6	3	1	6	3	3	—
49 Cancer of other female genital organs .....	Female ..	11	1	—	—	—	—	—	—	—	—	3	5	2	5	3	2	1
50 Cancer of the breast .....	Male ..	37	—	—	—	3	—	—	—	—	9	15	2	8	16	15	4	2
51 (a) Of the bladder .....	Female ..	13	—	—	—	1	—	—	—	—	1	5	2	3	3	5	4	1
(b) Of the kidney .....	Male ..	4	1	—	—	—	—	—	—	—	1	1	1	—	2	—	2	—
(c) Of the prostate gland .....	Male ..	22	—	—	—	2	—	—	—	—	2	3	10	5	14	4	3	1
(d) Of the testicle .....	Male ..	4	—	—	—	—	—	—	—	—	1	—	1	—	2	2	—	—
(e) Of other male genito-urinary organs .....	Male ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
52 Cancer of the skin .....	Male ..	6	—	—	—	1	—	—	—	—	2	2	2	1	2	—	1	3
53 (a) Of the eye and orbit .....	Female ..	4	—	—	—	—	—	—	—	—	2	—	—	2	—	—	1	3
(b) Of the circulatory system .....	Male ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(c) Of the glandular system .....	Female ..	1	—	—	—	—	—	—	—	—	—	1	—	—	1	—	—	—
(d) Of the female urinary organs .....	Male ..	5	—	—	—	1	—	—	—	—	—	1	1	1	3	—	1	1
(e) Of the female urinary organs .....	Female ..	5	3	—	—	—	—	—	—	—	1	2	1	1	1	1	1	3
(f) Of the bones and joints .....	Male ..	15	—	—	—	—	—	—	—	—	3	4	1	4	10	2	1	3
(g) Of the brain .....	Female ..	5	—	—	—	1	—	—	—	—	2	2	2	2	2	1	1	1
(h) Of the spine and spinal cord .....	Male ..	7	1	—	—	—	—	—	—	—	1	4	—	2	2	2	1	2
(i) Of the neck .....	Female ..	4	—	—	—	1	—	—	—	—	—	1	—	2	1	2	1	1
(j) Of the abdomen .....	Male ..	1	—	—	—	—	—	—	—	—	—	1	—	1	—	1	—	—
(k) Of other specified organs .....	Female ..	2	—	—	—	—	—	—	—	—	—	—	—	1	2	—	—	—
(l) Multiple cancer .....	Male ..	2	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
(m) Of unspecified or unknown location .....	Female ..	4	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—
54 Non-malignant tumours .....	Male ..	2	—	—	—	1	—	—	—	—	1	2	1	1	1	4	5	—
(a) Of the ovary .....	Female ..	23	2	—	—	2	—	—	—	—	12	3	—	4	8	6	2	7
(b) Of the uterus .....	Male ..	8	—	—	—	—	—	—	—	—	3	1	—	2	2	1	1	4
(c) Of other female genital organs .....	Female ..	10	—	—	—	—	—	—	—	—	7	1	—	2	3	5	1	1
(d) Of the brain .....	Male ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female ..	5	—	—	—	—	—	—	—	—	1	1	1	1	2	3	—	—
	Female ..	4	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	1





[illegible]



[illegible]

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY. FOR THE WHOLE PROVINCE, 1932—Continued

CAUSES OF DEATH	Total	Conjugal Condition										Nativity				
		Under 15 yrs.	Single					Married			Widowed	Canada	British	Foreign		
			15-24 years	25-44 years	45-64 years	65 years and over	Not Stated	15-24 years	25-44 years	45-64 years				65 years and over	U.S.A.	Others
96 Aneurysm (other than of the heart) .....	Male ..... 11	—	—	1	—	—	—	—	—	6	3	3	3	3	2	
97 Arteriosclerosis (of coronary arteries excepted).....	Female ..... 2	—	—	—	—	—	—	—	—	—	1	1	1	1	1	
98 Gangrene .....	Male ..... 112	—	—	1	6	8	—	—	1	14	45	37	35	32	26	
99 Other diseases of the arteries .....	Female ..... 80	—	—	—	—	5	—	—	—	14	21	40	26	25	14	
100 Diseases of the veins (varices, haemorrhoids, phlebitis, etc.) .....	Male ..... 4	—	—	1	—	—	—	—	1	1	1	1	1	1	1	
101 Diseases of the lymphatic system (lymphangitis, etc.).....	Female ..... 4	—	—	—	—	—	—	—	—	2	1	1	1	—	—	
102 Idiopathic abnormalities of blood pressure.....	Male ..... 3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
103 Other diseases of the circulatory system.....	Female ..... 23	—	—	1	1	2	—	—	1	7	12	9	11	8	10	
	Male ..... 1	—	—	—	—	—	—	—	2	7	6	6	5	5	8	
	Female ..... 1	—	—	—	—	—	—	—	—	—	—	—	1	—	—	
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM .....	Total ..... 448	215	17	7	12	9	—	3	17	45	52	71	305	64	3	
	Male ..... 259	122	12	5	11	6	—	—	7	31	32	33	171	40	24	
	Female ..... 189	93	5	2	1	3	—	3	10	14	20	38	134	24	9	
104 Diseases of the nasal fossae and annexa .....	Male ..... 1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	
105 (a) Croup .....	Female ..... 3	—	—	—	—	—	—	—	—	—	—	—	2	1	—	
(b) Other diseases of the larynx .....	Male ..... 2	—	—	—	—	—	—	—	—	—	—	—	2	—	—	
106 (a) Bronchitis, acute .....	Female ..... 2	—	—	—	—	—	—	—	—	—	—	—	1	—	—	
(b) Bronchitis, chronic .....	Male ..... 10	—	—	1	1	1	—	—	1	—	—	1	7	1	2	
(c) Bronchitis, unspecified .....	Female ..... 10	—	—	—	—	—	—	—	—	—	2	2	8	2	—	
107 (a) Bronchopneumonia .....	Male ..... 4	—	—	—	—	—	—	—	—	1	1	1	1	1	—	
	Female ..... 2	—	—	—	—	—	—	—	—	1	1	1	2	—	—	
	Male ..... 1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female ..... 97	61	—	1	1	1	—	—	—	7	13	14	75	10	1	
	Male ..... 74	51	—	—	—	2	—	—	2	5	4	10	61	5	2	

[illegible]





[illegible]

TABLE 18—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1932—Continued

CAUSES OF DEATH	Total	Conjugal Condition										Nativity				
		Single					Married					Canada	British	U.S.A.	Other	
		Under 15 yrs.					Widowed									
		15-24 years	25-44 years	45-64 years	65 years and over	Not Stated	15-24 years	25-44 years	45-64 years	65 years and over						
152 Cellulitis, acute abscess .....	Male .....	4	1	—	—	—	—	—	—	2	—	—	1	2	1	—
153 Qther diseases of the skin and annexa and of the cellular tissue .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	1	1	—
	Male .....	3	1	—	1	—	—	—	—	1	—	—	—	1	1	—
	Female .....	5	5	—	—	—	—	—	—	—	—	—	—	5	5	—
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION .....	Total .....	16	10	3	—	—	—	—	—	3	—	—	11	4	1	—
	Male .....	7	4	1	—	—	—	—	—	2	—	—	4	3	—	—
	Female .....	9	6	2	—	—	—	—	—	1	—	—	7	1	—	—
154 Osteomyelitis .....	Male .....	7	4	1	—	—	—	—	—	2	—	—	4	3	—	—
155 Other diseases of the bones (tuberculosis excepted) .....	Female .....	8	6	2	—	—	—	—	—	—	—	—	7	—	—	—
	Male .....	1	—	—	—	—	—	—	—	1	—	—	—	1	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CLASS XIV.—CONGENITAL MALFORMATIONS .....	Total .....	76	75	1	—	—	—	—	—	—	—	—	75	1	—	—
	Male .....	50	49	1	—	—	—	—	—	—	—	—	50	—	—	—
	Female .....	26	26	—	—	—	—	—	—	—	—	—	25	1	—	—
157 (a) Congenital hydrocephalus .....	Male .....	4	4	—	—	—	—	—	—	—	—	—	4	—	—	—
	Female .....	5	5	—	—	—	—	—	—	—	—	—	5	—	—	—
(b) Spina bifida and meningocele .....	Male .....	2	2	—	—	—	—	—	—	—	—	—	2	—	—	—
	Female .....	5	5	—	—	—	—	—	—	—	—	—	5	—	—	—
(c) Congenital malformations of the heart .....	Male .....	27	26	1	—	—	—	—	—	—	—	—	27	—	—	—
	Female .....	13	13	—	—	—	—	—	—	—	—	—	12	1	—	—
(d) Monstrosities .....	Male .....	1	1	—	—	—	—	—	—	—	—	—	1	—	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(e) Others under this title .....	Male .....	16	16	—	—	—	—	—	—	—	—	—	16	—	—	—
	Female .....	3	3	—	—	—	—	—	—	—	—	—	3	—	—	—
CLASS XV.—DISEASES OF EARLY INFANCY .....	Total .....	473	473	—	—	—	—	—	—	—	—	—	473	—	—	—
	Male .....	286	286	—	—	—	—	—	—	—	—	—	286	—	—	—
	Female .....	187	187	—	—	—	—	—	—	—	—	—	187	—	—	—
158 Congenital debility .....	Male .....	32	32	—	—	—	—	—	—	—	—	—	32	—	—	—
	Female .....	26	26	—	—	—	—	—	—	—	—	—	26	—	—	—



TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1932—Continued

CAUSES OF DEATH	Total	Conjugal Condition										Nativity			
		Single					Married					Widowed			
		Under 15 yrs.					Not Stated					65 years and over			
		15-24 years	25-44 years	45-64 years	65 years and over	Not Stated	15-24 years	25-44 years	45-64 years	65 years and over	Widowed	Canada	British	U.S.A.	Others
167 Suicide by firearms .....	Male .....	46	5	15	4	2	—	6	10	2	2	9	12	8	15
168 Suicide by cutting or piercing instruments .....	Female .....	2	1	—	—	—	—	1	1	—	—	1	1	—	—
169 Suicide by jumping from high places .....	Male .....	4	—	—	—	—	—	1	3	—	—	2	2	—	—
170 Suicide by crushing .....	Female .....	1	—	—	—	—	—	1	1	—	—	1	1	—	1
171 Suicide by other means .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—
172 Suicide by other means .....	Female .....	1	1	—	—	—	—	—	—	—	—	—	1	—	—
173-175 Homicides .....	Male .....	4	1	1	—	—	1	2	1	—	1	2	1	—	1
173 Homicide of persons one year of age and over by firearms .....	Female .....	5	1	—	—	—	1	1	—	—	1	3	1	—	2
174 Homicide of persons one year of age and over by cutting or piercing instruments .....	Male .....	3	1	—	—	—	—	—	—	—	—	2	1	—	1
175 Homicide by other means .....	Female .....	2	1	—	—	—	—	1	—	—	—	1	—	—	1
176-198 Other violent deaths .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—
177 Food poisoning .....	Female .....	2	—	—	—	—	—	—	—	—	—	—	—	—	—
178 Accidental absorption of toxic gases .....	Male .....	3	—	1	—	—	—	2	—	—	—	3	—	—	—
179 Other acute accidental poisonings (except by gas) .....	Female .....	1	—	—	—	—	—	—	—	—	—	1	2	1	—
180 Conflagration .....	Male .....	5	—	—	—	—	—	—	—	—	—	2	2	—	—
181 Accidental burns (conflagration excepted) .....	Female .....	3	—	—	—	—	—	—	—	—	—	3	—	—	—
182 Accidental mechanical suffocation .....	Male .....	6	—	—	—	—	—	1	—	—	—	2	2	—	—
183 Accidental drowning .....	Female .....	4	—	—	—	—	—	—	—	—	—	5	—	—	—
184 Accidental injury by firearms .....	Male .....	11	5	—	—	1	—	1	3	—	—	8	2	1	—
185 Accidental injury by cutting or piercing instruments .....	Female .....	9	2	—	—	—	1	—	—	—	—	5	1	2	—
	Male .....	6	4	—	—	—	—	2	1	—	1	3	1	—	—
	Female .....	5	3	—	—	—	—	1	—	—	—	4	—	—	—
	Male .....	42	15	8	—	—	—	4	3	1	3	27	5	2	7
	Female .....	8	6	—	—	—	—	2	—	—	—	5	2	1	1
	Male .....	18	5	—	—	—	—	2	—	—	—	10	1	3	4
	Female .....	2	1	—	—	—	—	1	—	—	—	1	1	—	—
	Male .....	4	—	—	—	—	—	2	1	—	—	1	—	1	—
	Female .....	1	—	—	—	—	—	1	—	—	—	1	—	—	2



[illegible]

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), 1932

[illegible]

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1932

CAUSES OF DEATH		Total	MONTHS											
			January	February	March	April	May	June	July	August	September	October	November	December
DEATHS—ALL CAUSES														
	Total	5521	451	439	472	494	511	427	410	419	403	447	450	598
	Male	3248	246	240	287	296	261	266	244	269	246	272	275	346
	Female	2273	205	199	185	198	250	161	166	150	157	175	175	252
CLASS I.—INFECTIOUS AND PARASITIC DISEASES														
	Total	871	64	59	62	89	98	72	54	47	40	58	76	152
	Male	512	35	35	35	55	46	44	33	34	24	42	46	83
	Female	359	29	24	27	34	52	28	21	13	16	16	30	69
1	Typhoid fever	5	1	—	—	—	—	—	—	—	2	1	1	—
	Female	4	1	1	—	1	—	—	—	—	—	—	—	—
5	Undulant fever	1	—	—	—	—	—	—	—	—	—	—	—	—
	Female	—	—	—	—	—	—	—	—	—	—	—	—	—
6	Smallpox	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female	—	—	—	—	—	—	—	—	—	—	—	—	—
7	Measles	10	—	—	—	2	1	2	—	1	1	2	1	—
	Female	4	—	—	—	—	3	—	—	—	—	—	—	—
8	Scarlet fever	1	—	—	—	1	—	—	—	—	—	—	—	—
	Female	3	1	—	—	—	1	—	—	—	—	—	—	—
9	Whooping-cough	16	1	—	1	2	—	—	—	—	2	6	3	1
	Female	18	1	—	1	3	4	3	—	—	1	2	3	—
10	Diphtheria	8	2	1	—	—	1	1	—	—	—	—	—	—
	Female	2	—	—	—	—	1	1	—	—	—	—	—	—
11	Influenza	166	13	9	10	21	22	5	2	1	4	3	17	59
	Female	131	8	10	6	12	23	6	3	1	4	2	12	44
(a)	Sole cause	23	2	1	1	3	5	1	1	—	1	—	1	7
	Female	23	—	—	—	3	6	—	—	—	1	—	2	10
(b)	With bronchitis	3	—	—	—	—	2	1	—	—	—	—	1	1
	Female	3	—	—	—	—	2	—	—	—	—	—	—	—
(c)	With pneumonia	76	7	3	4	6	10	1	—	—	1	3	10	31
	Female	48	4	1	3	4	6	2	1	—	1	1	7	18
(d)	With other respiratory diseases	10	—	2	—	1	2	1	—	—	—	—	—	2
	Female	6	—	—	—	—	1	—	—	—	—	—	—	3
(e)	With intestinal complications	7	—	1	—	—	1	—	—	1	1	—	—	3
	Female	16	2	3	2	2	1	1	1	1	1	—	1	5
(f)	With other causes	47	4	4	5	11	4	1	1	1	1	1	3	15
	Female	31	2	3	1	1	7	3	1	—	—	1	1	10

[illegible]

## VITAL STATISTICS BRANCH

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1932.—Continued

CAUSES OF DEATH		Total	MONTHS											
			January	February	March	April	May	June	July	August	September	October	November	December
			Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female
(c) Other infectious or parasitic diseases.....		1 1	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 —
<b>CLASS II.—CANCER AND OTHER TUMOURS</b>		<b>582</b>	<b>48</b>	<b>47</b>	<b>43</b>	<b>45</b>	<b>57</b>	<b>58</b>	<b>49</b>	<b>48</b>	<b>44</b>	<b>52</b>	<b>44</b>	<b>47</b>
45-53 Cancer and other malignant tumours.....	<b>Total</b>	<b>257</b>	<b>18</b>	<b>25</b>	<b>15</b>	<b>20</b>	<b>37</b>	<b>21</b>	<b>23</b>	<b>26</b>	<b>21</b>	<b>20</b>	<b>11</b>	<b>26</b>
45 Cancer of the buccal cavity and pharynx .....	Male .....	10	—	1	1	2	1	1	—	1	1	1	1	2
46 (a) Of the oesophagus .....	Female .....	5	—	—	—	—	1	1	—	—	—	—	—	—
(b) Of the stomach and duodenum .....	Male .....	7	—	1	1	—	—	1	1	—	2	2	1	1
(c) Of the rectum .....	Female .....	6	1	1	—	—	1	1	6	6	8	9	8	8
(d) Of the liver and biliary ducts .....	Male .....	90	8	5	6	8	5	13	4	9	6	3	1	3
(e) Of the pancreas .....	Female .....	50	5	4	2	3	7	4	4	9	6	1	2	2
(f) Of the peritoneum.....	Male .....	14	2	1	1	1	1	1	3	3	1	2	1	1
(g) Of other organs .....	Female .....	11	—	—	—	—	1	—	2	—	—	2	2	1
47 (a) Of the larynx .....	Male .....	21	1	2	1	1	1	3	2	2	2	2	2	1
(b) Of the lung .....	Female .....	18	1	4	—	1	3	3	4	1	1	1	1	2
(c) Of the mediastinum .....	Male .....	9	—	1	—	—	4	2	1	1	—	—	—	—
(d) Of other organs of the respiratory system.....	Female .....	3	—	1	2	—	—	—	—	1	—	—	—	—
48 (a) Of the uterus .....	Male .....	34	—	3	4	1	—	1	—	1	—	—	—	—
(b) Of the cervix uteri .....	Female .....	26	1	2	2	2	3	2	4	2	2	5	2	—
49 Cancer of other female genital organs .....	Male .....	2	—	—	—	—	—	1	1	—	—	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	9	—	1	—	—	—	—	—	—	—	—	—	—
	Female .....	3	—	1	—	—	—	—	—	—	—	—	—	—
	Male .....	3	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	2	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	25	4	2	—	4	3	1	1	1	1	2	4	2
	Male .....	15	1	2	—	2	3	1	2	1	1	—	—	2
	Female .....	11	1	—	—	—	1	2	1	2	—	1	—	3

[illegible]





67	Diseases of the thymus gland .....	Male .....	5	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1
68	Diseases of the adrenals (Addison's disease) .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
69	Other general diseases .....	Male .....	5	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	<b>Total</b> .....	Female .....	7	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(a) Fatty or amyloid degeneration .....	Male ....	3	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female ....	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(b) Steatosis of heart, etc. ....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female ....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(c) Others under this title .....	Male ....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS .....</b>																				
	<b>Total</b> .....	Male ....	77	10	9	6	6	3	3	9	5	8	4	10	4	—	—	—	—	—
		Female .....	40	4	7	3	3	2	2	7	2	1	1	5	1	—	—	—	—	—
	<b>Total</b> .....	Female .....	37	6	2	3	3	1	1	2	3	7	3	5	3	—	—	—	—	—
70	(a) Simple purpura .....	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(b) Haemophilia .....	Male ....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
71	(a) Pernicious anaemia .....	Male ....	16	1	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	17	3	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(b) Other anaemias .....	Male ....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female ....	3	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
72	(a) Leukaemia .....	Male ....	14	1	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	13	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(b) Aleukaemia (Hodgkin's disease) .....	Male ....	6	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS.....</b>																				
	<b>Total</b> .....	Male ....	6	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	6	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
75	(b) Alcoholism .....	Male ....	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE .....</b>																				
	<b>Total</b> .....	Male ....	266	19	24	27	27	37	37	25	15	22	18	20	10	—	—	—	—	—
		Female .....	143	7	11	15	15	17	17	11	7	16	10	13	6	—	—	—	—	—
	<b>Total</b> .....	Female .....	123	7	12	13	12	20	20	14	8	6	8	7	4	—	—	—	—	—
78	Encephalitis (non-epidemic) .....	Male ....	7	1	1	2	2	1	1	—	—	—	—	—	—	—	—	—	—	—
		Female .....	3	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
79	Simple meningitis .....	Male ....	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
80	Progressive locomotor ataxia .....	Male ....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
81	Other diseases of the spinal cord .....	Male ....	5	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Female .....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
82	Cerebral haemorrhage, embolism or thrombosis.....	Male ....	74	5	4	4	4	10	9	6	1	6	7	8	3	—	—	—	—	—
	<b>Total</b> .....	Female .....	75	4	4	7	7	10	10	9	6	5	6	7	3	—	—	—	—	—

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1932—Continued

CAUSES OF DEATH	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
(a) Cerebral haemorrhage .....	Male ... 61	4	4	2	8	7	6	1	6	4	8	3	8
(b) Cerebral embolism or thrombosis .....	Female ... 58	4	3	5	7	9	8	5	2	5	5	2	3
(c) Softening of the brain .....	Male ... 2	—	1	—	—	—	—	—	1	3	—	—	—
(d) Hemiplegia and other paralysis, cause not specified .....	Female ... 10	—	—	—	—	—	—	—	—	—	—	—	—
83 General paralysis of the insane .....	Male ... 15	1	—	2	2	2	1	1	2	1	2	1	3
84 (a) Dementia praecox .....	Female ... 7	4	—	2	2	1	1	—	—	—	—	—	1
(b) Other psychoses .....	Male ... 3	—	—	—	1	2	—	1	—	—	—	—	—
(b) Other psychoses .....	Female ... 1	—	—	—	—	1	—	—	—	—	—	—	—
85 Epilepsy .....	Male ... 1	—	—	—	—	—	—	—	—	—	—	—	1
86 Convulsions (under 5 years of age) .....	Female ... 13	1	1	1	—	3	2	1	3	1	—	1	2
87 Other diseases of the nervous system .....	Male ... 7	2	1	1	2	1	3	1	—	1	1	1	1
(a) Chorea .....	Female ... 5	1	1	2	—	2	—	1	3	—	2	1	1
(b) Neuritis .....	Total ... 12	1	2	—	—	1	—	—	—	—	—	1	—
(c) Paralysis agitans .....	Male ... 6	2	—	—	—	—	—	—	—	—	—	—	—
(d) Disseminated sclerosis .....	Female ... 7	—	—	—	—	—	—	—	—	—	—	—	—
(e) Others under this title .....	Male ... 2	1	—	—	—	1	—	—	3	—	—	1	1
88 Diseases of the organs of vision .....	Female ... 2	—	2	—	—	—	—	—	—	—	1	—	—
89 (a) Otitis .....	Male ... 6	1	—	—	—	—	1	—	—	—	—	—	—
(b) Mastoid process .....	Female ... 8	—	4	—	—	3	1	—	1	—	2	—	—
	Male ... 1	—	—	1	2	—	—	—	—	—	—	—	—
	Female ... 5	—	—	—	—	2	—	—	—	—	—	—	—

CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM.....		1045	86	90	98	97	74	73	69	86	73	92	103	104
90-95	Diseases of the heart .....	1045	86	90	98	97	74	73	69	86	73	92	103	104
90	Pericarditis .....	649	44	57	66	59	48	54	38	58	42	55	61	67
	Male .....	396	42	33	32	38	26	19	31	28	31	37	42	37
	Female .....													
91	Acute endocarditis .....	483	30	44	49	45	36	37	25	45	33	44	47	48
	Male .....	279	29	24	23	25	18	16	20	18	22	27	27	30
	Female .....	4	—	—	1	1	1	1	—	—	—	1	1	1
	Male .....	8	1	—	1	1	1	1	—	1	1	—	2	1
	Female .....	9	—	1	—	—	—	—	—	—	—	—	—	—
	Male .....	7	1	—	1	1	1	1	—	1	1	2	1	—
	Female .....	8	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	6	1	1	—	1	1	1	—	—	1	2	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	1
	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
92	Chronic endocarditis, valvular diseases .....	141	5	12	12	7	13	13	10	13	10	18	10	18
	Male .....	63	5	5	6	7	3	4	6	5	4	3	8	7
	Female .....													
	Male .....	139	5	12	12	6	12	13	10	13	10	18	10	18
	Female .....	63	5	5	6	7	3	4	6	5	4	3	8	7
	Male .....	2	—	—	—	1	1	—	—	—	—	—	—	—
	Female .....													
93	Diseases of the myocardium .....	161	10	14	15	25	8	12	7	17	12	8	13	20
	Male .....	134	12	12	10	13	10	10	9	8	11	15	12	12
	Female .....	9	—	—	2	3	—	—	—	1	—	2	1	—
	Male .....	3	—	—	1	—	1	1	—	—	—	—	—	—
	Female .....	2	—	—	—	—	—	—	—	1	—	—	—	—
	Male .....	2	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....													
	Male .....	131	9	10	11	18	6	10	6	14	10	6	12	19
	Female .....	110	8	9	8	9	7	8	8	7	8	15	11	12
	Male .....	10	1	4	2	4	1	2	1	1	2	—	—	1
	Female .....	21	4	3	1	4	2	1	1	1	3	—	1	—
94	Diseases of the coronary arteries and angina pectoris .....	118	13	13	10	7	8	10	5	6	7	16	15	8
	Male .....	41	7	5	3	2	2	1	3	2	5	4	1	6
	Female .....	11	—	—	1	—	—	—	—	1	2	3	4	—
	Male .....	2	—	—	—	—	—	—	—	2	—	—	—	—
	Female .....	73	10	10	7	5	5	7	3	2	2	6	9	7
	Male .....	28	6	3	1	2	2	2	1	—	4	4	1	4
	Female .....	34	3	3	2	2	3	3	2	3	3	7	2	1
	Male .....	11	1	2	2	2	—	1	2	—	1	—	—	2
	Female .....	50	1	5	10	6	5	—	3	8	3	2	7	—
	Male .....	31	5	1	4	1	2	1	2	3	1	2	4	5
	Female .....	3	—	1	1	—	—	—	—	—	—	—	—	—
	Male .....	3	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—
	Male .....	47	1	4	9	6	5	—	3	8	3	2	6	—
	Female .....	27	5	1	4	1	2	1	1	3	1	2	3	3
	Male .....	11	—	1	1	2	—	1	1	1	—	1	—	—
	Female .....	12	—	1	1	—	—	—	—	—	—	—	—	—
	Male .....	112	10	10	13	10	7	12	10	9	5	8	7	11
	Female .....	80	9	3	7	9	7	3	8	8	8	4	9	5

## VITAL STATISTICS BRANCH

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1932—Continued

CAUSES OF DEATH	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
98 Gangrene .....	Male .... 4	1	—	—	—	—	1	—	—	1	—	1	1
	Female .... 4	1	—	—	1	—	—	—	—	—	1	—	—
99 Other diseases of the arteries .....	Male .... 3	—	1	—	—	—	—	—	—	—	—	—	1
	Female .... 3	—	—	—	—	—	—	—	—	—	—	—	—
100 Diseases of the veins (varices, haemorrhoids, phlebitis, etc.) .....	Male .... 1	—	—	—	—	—	—	—	—	—	—	1	—
	Female .... 5	2	—	—	1	—	—	1	1	—	—	1	—
101 Diseases of the lymphatic system (lymphangitis, etc.) .....	Male .... 3	—	—	—	—	—	—	—	—	—	—	—	—
	Female .... 33	3	2	2	3	4	3	2	2	3	2	5	2
102 Idiopathic abnormalities of blood pressure .....	Male .... 23	1	4	1	2	1	—	2	2	1	4	4	1
	Female .... 1	—	—	—	—	—	—	—	—	—	—	1	—
103 Other diseases of the circulatory system .....	Male .... 1	—	—	—	—	—	—	—	—	—	—	—	—
	Female .... 448	44	40	49	48	30	17	26	15	27	34	52	66
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM .....	Male .... 259	20	21	28	33	13	11	17	8	15	23	28	42
	Female .... 189	24	19	21	15	17	6	9	7	12	11	24	24
104 Diseases of the nasal fossae and annexa .....	Male .... 1	—	—	—	—	—	—	—	—	—	—	—	—
	Female .... 3	1	—	1	—	—	—	—	—	—	1	—	—
105 (a) Croup .....	Male .... 2	—	—	1	—	—	—	—	—	1	—	—	—
	Female .... 1	—	—	—	—	—	—	—	—	—	—	—	—
(b) Other diseases of the larynx .....	Male .... 2	—	—	1	1	—	—	—	—	—	—	—	—
	Female .... 2	—	—	—	—	—	—	—	—	—	—	—	—
106 (a) Bronchitis, acute .....	Male .... 10	2	—	1	—	1	1	1	—	—	3	1	—
	Female .... 10	2	—	1	1	1	1	—	—	1	—	1	2
(b) Bronchitis, chronic .....	Male .... 4	1	—	—	—	—	—	—	—	—	—	—	2
(c) Bronchitis, unspecified .....	Male .... 2	—	—	—	—	—	—	—	—	—	—	—	1
	Female .... 1	—	—	—	—	—	—	—	—	—	—	—	—
107 (a) Bronchopneumonia .....	Male .... 97	4	9	11	11	5	4	9	1	4	12	13	14
	Female .... 74	9	10	7	4	8	3	3	5	4	5	9	7
(b) Capillary bronchitis .....	Male .... 1	—	—	—	—	—	—	—	—	—	—	—	—
	Female .... 77	8	6	9	13	4	2	4	2	4	1	10	14
108 Lobar pneumonia .....	Male .... 59	4	3	2	4	1	—	2	1	5	3	10	8
	Female .... 34	4	3	2	4	1	2	2	1	3	3	2	7
109 Pneumonia, not specified .....	Male .... 2	—	2	4	1	3	1	1	—	—	—	—	4
	Female .... 19	2	2	4	1	3	—	—	—	—	—	—	—



[illegible]



[illegible]

CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE		Total
		Male
		Female
151	Carbuncle	Male
		Female
152	Cellulitis, acute abscess	Male
		Female
153	Other diseases of the skin and annexa and of the cellular tissue	Male
		Female



[illegible]





[illegible]

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), 1932

[illegible]



[illegible]





	(e) Of the thyroid gland	Male	Female	Total	(f) Of other or unspecified sites	Male	Female	Total	(g) Tumours of the brain, nature not specified	Male	Female	Total
55		1	1	2		1	1	2		1	1	2
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES.		25	11	36		1	1	2		1	1	2
56	Acute rheumatic fever	2	—	2		—	—	—		—	—	—
57	Chronic rheumatism, osteo-arthritis	1	8	9		—	—	—		—	—	—
59	Diabetes mellitus	3	1	4		—	—	—		—	—	—
60	Scurvy	1	—	1		—	—	—		—	—	—
66	(a) Simple goitre	1	2	3		—	—	—		—	—	—
	(b) Exophthalmic goitre	6	1	7		—	—	—		—	—	—
69	Other general diseases	—	—	—		—	—	—		—	—	—
CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS		15	9	24		—	—	—		—	—	—
70	(a) Simple purpura	1	3	4		—	—	—		—	—	—
71	(a) Pernicious anaemia	4	4	8		—	—	—		—	—	—
72	(a) Leukaemia	1	1	2		—	—	—		—	—	—
	(b) Aleukaemia (Hodgkin's disease)	2	—	2		—	—	—		—	—	—
CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS		2	2	4		—	—	—		—	—	—
75	(b) Alcoholism	2	—	2		—	—	—		—	—	—
CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.		41	16	57		—	—	—		—	—	—
78	Encephalitis (non-epidemic)	1	1	2		—	—	—		—	—	—



[illegible]



[illegible]





[illegible]









[illegible]

TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1932—Continued

CAUSES OF DEATH	Total	Conjugal Condition										Nativity				Not Stated	
		Single					Married					Canada	British	Foreign			
		Under 15 yrs.	65 years and over				15-24 yrs.	65 years and over						United States	Other		
			15-24 yrs.	25-44 yrs.	45-64 yrs.	65 years and over		25-44 yrs.	45-64 yrs.	65 years and over	Widowed						
54 Non-malignant tumours .....	Male .....	2	—	—	—	—	—	—	—	—	—	—	2	—	—	—	
(a) Of the ovary .....	Female .....	8	1	—	—	—	—	—	—	—	—	—	1	1	4	—	
(b) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	1	—	—	
(d) Of the brain .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(e) Of the thyroid gland .....	Female .....	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
(g) Of other or unspecified sites .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(g) Of other or unspecified sites .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
55 (d) Tumours of the brain, nature not specified.....	Male .....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES .....																	
56 Acute rheumatic fever .....	Total .....	25	4	2	—	—	3	2	9	2	1	13	5	6	1	—	—
	Male .....	11	1	2	—	—	1	—	6	1	—	5	4	2	—	—	—
	Female .....	14	3	—	—	—	3	2	3	1	1	8	1	4	1	—	—
57 Chronic rheumatism, osteo-arthritis .....	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
59 Diabetes mellitus .....	Male .....	3	1	—	—	—	—	—	5	1	—	3	3	2	—	—	—
60 Scurvy .....	Female .....	1	1	—	—	—	—	—	1	—	—	2	1	—	—	—	—
66 (a) Simple goitre .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	2	—	—	—	—	—	—	1	—	—	1	—	1	—	—	—
(b) Exophthalmic goitre .....	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
69 Other general diseases .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1932—Continued

CAUSES OF DEATH	Total	Conjugal Condition										Nativity				
		Under 15 yrs.	Single					Married					Canada	British	Foreign	
			15-24 yrs.	25-44 yrs.	45-64 yrs.	65 years and over	15-24 yrs.	25-44 yrs.	45-64 yrs.	65 years and over	Widowed	United States			Other	
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM.....	Total	180	1	1	4	6	13	1	14	40	50	89	54	16	21	Not Stated
90-95 Diseases of the heart .....	Male .....	111	1	2	2	6	9	1	6	28	34	55	33	11	12	
	Female ..	69	—	1	2	—	4	—	8	12	16	34	21	5	9	
90 Pericarditis .....	Male .....	76	1	—	—	3	7	1	5	21	25	45	17	7	7	
	Female ..	50	—	1	2	—	3	—	5	9	13	30	12	3	5	
91 (a) Acute endocarditis .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
92 (a) Chronic endocarditis, valvular diseases .....	Male .....	3	—	1	2	—	—	—	—	—	—	—	—	—	—	
	Female ..	18	1	—	—	1	—	1	3	4	7	11	4	1	2	
93 (c) Chronic myocarditis and myocardial degeneration.....	Male .....	15	—	—	—	—	—	—	4	6	5	9	3	1	2	
	Female ..	22	—	—	—	—	4	—	4	6	7	12	5	3	2	
	Male .....	17	—	—	—	—	1	—	1	1	5	12	4	—	1	
	Female ..	3	—	—	—	—	—	—	—	—	2	1	1	1	—	
(d) Myocarditis, unspecified, 45 years and over.....	Male .....	6	—	—	—	—	1	—	—	1	2	5	1	—	—	
	Female ..	6	—	—	—	—	—	—	—	—	3	2	—	—	—	
94 (a) Diseases of the coronary arteries .....	Male .....	15	—	—	—	—	—	—	—	—	6	11	2	1	1	
	Female ..	4	—	—	—	—	1	—	—	5	1	2	—	1	2	
(b) Embolism and thrombosis of coronary arteries.....	Male .....	4	—	—	—	—	1	—	—	1	1	1	3	—	—	
	Female ..	2	—	—	—	—	—	—	—	1	2	1	—	1	—	
(c) Angina pectoris .....	Male .....	7	—	—	—	—	—	—	—	—	2	1	1	—	—	
	Female ..	3	—	—	—	—	1	—	2	3	—	4	1	—	2	
95 (b) Other diseases of the heart .....	Male .....	3	—	—	—	—	—	—	—	—	—	1	2	—	—	
	Female ..	3	—	1	—	—	—	—	—	—	—	1	1	1	—	
96 Aneurysm (other than of the heart) .....	Male .....	19	—	—	—	—	1	—	—	1	8	7	9	1	2	
	Female ..	9	—	—	—	—	1	—	—	1	2	6	5	2	—	
97 Arteriosclerosis (of coronary arteries excepted) .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female ..	1	—	—	—	—	—	—	—	—	—	—	—	—	1	
98 Gangrene .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female ..	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
99 Other diseases of the arteries .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female ..	1	—	—	—	—	—	—	—	—	—	—	1	—	—	
100 Diseases of the veins (varices, haemorrhoids, phlebitis, etc.) .....	Male .....	1	—	—	—	—	—	—	1	—	—	—	1	—	—	
	Female ..	2	—	—	—	—	—	—	2	—	—	1	—	—	1	

[illegible]



TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1932—Continued

		Conjugal Condition										Nativity					
		Under 15 yrs.	Single				Married				Widowed	Canada	British	Foreign			
			15-24 yrs.	25-44 yrs.	45-64 yrs.	65 years and over	15-24 yrs.	25-44 yrs.	45-64 yrs.	65 years and over				United States	Other		
Total																	Not Stated
CAUSES OF DEATH																	
(b) Intestinal obstruction .....	Male .....	8	1	2	2	2	1	1	1	1	1	6	1	1	1	1	1
123 Other diseases of the intestines .....	Female .....	6	—	—	—	—	—	—	—	—	—	3	2	—	—	—	—
124 Cirrhosis of the liver (non-alcoholic) .....	Male .....	1	—	1	1	—	—	—	—	—	1	1	—	—	—	—	—
125 (a) Yellow atrophy of the liver .....	Female .....	1	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—
(b) Other diseases of the liver .....	Male .....	1	—	1	—	—	—	—	—	—	1	—	—	—	—	—	—
126 Biliary calculi .....	Female .....	3	—	—	—	—	—	—	—	—	1	2	—	—	—	—	—
127 Other diseases of the gall-bladder and biliary passages .....	Male .....	1	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—
129 Peritonitis, cause not specified .....	Female .....	6	—	—	—	—	—	—	—	—	1	2	2	1	—	—	—
	Male .....	2	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM.....																	
130 Acute nephritis, including unspecified (under 10 years of age) .....	Total .....	66	1	2	2	7	5	1	5	15	28	18	10	9	1	1	1
	Male .....	47	1	1	2	6	5	—	—	7	17	15	9	5	1	—	—
	Female .....	19	1	1	—	1	—	—	—	8	11	3	1	4	—	—	—
131 Chronic nephritis .....	Male .....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	20	—	—	—	—	—	—	—	1	2	5	5	3	—	—	—
132 Nephritis not specified (10 years and over) .....	Male .....	14	—	1	2	3	2	—	—	3	7	5	1	3	—	—	—
133 Other diseases of the kidneys and annexa .....	Female .....	3	—	—	—	1	—	—	—	5	8	2	1	1	—	—	—
134 Calculi of the urinary passages .....	Male .....	1	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—
	Female .....	2	—	1	—	—	—	—	—	1	—	1	1	1	—	—	—
136 (a) Stricture of the urethra .....	Male .....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
137 Diseases of the prostate .....	Female .....	16	—	—	—	1	1	—	—	—	1	7	2	1	—	—	—
139 (b) Of the uterus (non-venereal) .....	Male .....	1	—	—	—	—	—	—	—	—	4	6	—	—	—	—	—
	Female .....	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—

CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE .....										
Total .....	11	—	2	1	—	—	6	2	—	—
140 (a) Abortion with septic conditions .....	Female ..	3	—	—	—	—	1	—	—	—
(b) Self-induced abortion with septic conditions.....	Female ..	1	—	—	—	—	—	—	—	—
143 Other accidents of pregnancy (haemorrhage excluded)....	Female ..	1	—	—	—	—	1	—	—	—
145 (a) Puerperal septicaemia (not specified as consequent upon abortion) .....	Female ..	1	—	—	—	—	—	—	—	—
146 Puerperal albuminuria and eclampsia .....	Female ..	3	—	—	—	—	1	2	—	—
147 Other toxæmias of pregnancy .....	Female ..	1	—	—	—	—	—	—	—	—
149 (c) Instrumental delivery .....	Female ..	1	—	—	—	—	1	—	—	—
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE .....										
152 Cellulitis acute abscess .....	Total .....	2	—	—	—	—	1	1	—	—
	Male .....	1	—	—	—	—	—	—	—	—
	Female ..	1	—	—	—	—	1	—	—	—
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION .....										
154 Osteomyelitis .....	Total .....	9	6	3	—	—	—	—	—	—
	Male .....	3	2	1	—	—	—	—	—	—
	Female ..	6	4	2	—	—	—	—	—	—
	Male .....	3	2	1	—	—	—	—	—	—
	Female ..	6	4	2	—	—	—	—	—	—
CLASS XIV.—CONGENITAL MALFORMATIONS .....										
157 (a) Congenital hydrocephalus .....	Total .....	14	14	—	—	—	—	—	—	—
(b) Spina bifida and meningocele .....	Male .....	7	7	—	—	—	—	—	—	—
(c) Congenital malformations of the heart.....	Female ..	7	7	—	—	—	—	—	—	—
(e) Others under this title .....	Male .....	1	1	—	—	—	—	—	—	—
	Female ..	2	2	—	—	—	—	—	—	—
	Male .....	—	—	—	—	—	—	—	—	—
	Female ..	2	2	—	—	—	—	—	—	—
	Male .....	5	5	—	—	—	—	—	—	—
	Female ..	3	3	—	—	—	—	—	—	—
	Male .....	1	1	—	—	—	—	—	—	—
	Female ..	—	—	—	—	—	—	—	—	—
CLASS XV.—DISEASES OF EARLY INFANCY .....										
158 Congenital debility .....	Total .....	45	45	—	—	—	—	—	—	—
159 Premature birth .....	Male .....	27	27	—	—	—	—	—	—	—
	Female ..	18	18	—	—	—	—	—	—	—
	Male .....	3	3	—	—	—	—	—	—	—
	Female ..	1	1	—	—	—	—	—	—	—
	Male .....	15	15	—	—	—	—	—	—	—
	Female ..	16	16	—	—	—	—	—	—	—

TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1930. 1932—Continued

CAUSES OF DEATH		Conjugal Condition										Nativity							
		Total	Single					Married					Canada	British	United States	Other	Not Stated		
			Under 15 yrs.	15-24 yrs.	25-44 yrs.	45-64 yrs.	65 years and over	15-24 yrs.	25-44 yrs.	45-64 yrs.	65 years and over	Widowed							
160	(a) Injury at birth with record of caesarean operation.....	Male ....	1	1										1					
	(b) Injury at birth without record of caesarean operation.....	Female ..													3				
161	(a) Atelectasis .....	Male ....	1	1											1				
	(b) Icterus of the new-born .....	Female ..	2	2											2				
	(c) Other diseases peculiar to early infancy, including lack of care .....	Male ....	2	2											2				
		Female ..	1	1											1				
	CLASS XVI.—SENILITY .....	Total ....	13												6				
		Male ....	6												4				
		Female ..	7												2				
162	(a) With senile dementia .....	Male ....	1												1				
	(b) Without senile dementia (70 years and over) .....	Female ..	3												3				
		Male ....	5												2				
		Female ..	4												4				
	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS .....	Total ....	57	2	7	6	3	3	1	13	10	3	9	21	14	1	18	3	
		Male ....	39	1	4	6	3	3	1	8	9	3	1	12	9	—	15	3	
		Female ..	18	1	3					5	1		8	9	5	1	3		
163-171	Suicides .....	Male ....	12			2	3			2	5			2	3		4	3	
	Total .....	Female ..	5	1						2	1		1	3	2				
163	Suicide by solid or liquid poisons or by absorption of corrosive substances .....	Male ....	3				1			1	1						2	1	
		Female ..	1							1									
165	Suicide by hanging or strangulation .....	Male ....	2			1				1	1						1		
		Female ..	2																
166	Suicide by drowning .....	Male ....	1								1								
		Female ..	1																
167	Suicide by firearms .....	Male ....	6		1	1	2			1	2		1		1		1	2	
		Female ..	1	1															

[illegible]

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE) EDMONTON, 1932

[illegible]

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932

CAUSES OF DEATH	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
DEATHS—ALL CAUSES	921 533 388	71 38 33	68 36 32	91 53 38	24 49 35	105 56 49	73 43 30	77 42 35	61 41 20	62 33 29	66 41 25	75 47 28	88 54 34
CLASS I.—INFECTIOUS AND PARASITIC DISEASES	139 76 63	12 4 8	10 4 6	11 8 3	18 10 8	23 14 9	9 2 7	6 4 2	12 7 5	6 2 4	8 8 —	10 6 4	14 7 7
1 Typhoid fever	Male ... Female ...	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
7 Measles	Male ... Female ...	— —	— —	— —	1 —	2 —	— —	— —	1 —	— —	— —	— —	— —
10 Diphtheria	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
11 Influenza	Male ... Female ...	28 19	1 2	3 —	4 3	8 4	— 2	— —	— —	1 —	1 —	3 2	6 4
(a) Sole cause	Male ... Female ...	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
(b) With bronchitis	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
(c) With pneumonia	Male ... Female ...	— —	— —	2 —	— —	5 —	— —	— —	— —	— —	1 —	1 —	2 —
(d) With other respiratory diseases	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
(e) With intestinal complications	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
(f) With other causes	Male ... Female ...	1 —	— —	1 —	3 —	1 2	2 —	— —	— —	— —	— —	1 —	2 —
13 Dysentery	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 —	— —	— —
15 Erysipelas	Male ... Female ...	— —	— —	1 —	— —	— —	— —	— —	— —	— —	— —	1 —	— —
18 Epidemic cerebrospinal meningitis	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
23-32 Tuberculosis	Male ... Female ...	— —	2 3	4 3	3 4	6 2	2 4	2 2	— —	— —	— —	2 2	1 3
Total	33 35	5	3	3	4	2	4	2	5	2	4	2	3



23	Tuberculosis of the respiratory system.....	Male ....	24	1	1	2	3	2	4	1	5	1	3	1	2
24	Tuberculosis of the meninges and central nervous system.....	Female .....	24	6	3	2	1	2	4	1	1	—	—	1	1
25	Tuberculosis of the intestines and peritoneum.....	Male ....	5	2	—	—	—	—	—	—	—	—	—	—	—
26	Tuberculosis of the vertebral column .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
32	(a) Disseminated tuberculosis, acute .....	Male ....	3	2	—	—	1	—	—	—	—	—	1	—	—
32	(b) Disseminated tuberculosis, chronic .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
34	Syphilis .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
34	Syphilis .....	Female .....	5	—	—	—	1	—	—	1	—	—	2	—	1
36	Purulent infection, septicaemia (non-puerperal) .....	Male ....	2	1	—	—	1	—	—	—	—	—	—	—	—
36	Purulent infection, septicaemia (non-puerperal) .....	Female .....	4	1	1	—	—	1	—	—	—	1	—	—	—
CLASS II.—CANCER AND OTHER TUMOURS															
45-53	Cancer and other malignant tumours.....	Total .....	128	13	12	6	13	16	8	12	12	6	8	11	11
45	Cancer of the buccal cavity and pharynx .....	Male .....	66	10	2	3	6	5	7	4	6	4	5	6	8
46	(a) Of the oesophagus .....	Female .....	62	3	10	3	7	11	1	8	6	2	3	5	3
46	(b) Of the stomach and duodenum .....	Male ....	52	3	8	1	6	11	1	8	5	4	5	5	1
46	(c) Of the rectum .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(d) Of the liver and biliary ducts .....	Male ....	1	1	—	—	—	—	—	—	—	1	1	—	—
46	(e) Of the pancreas .....	Female .....	19	3	—	—	3	1	1	1	2	1	2	2	4
46	(f) Of the peritoneum .....	Male ....	8	1	2	1	—	1	1	1	1	1	—	1	1
46	(g) Of other organs .....	Female .....	2	—	—	—	—	—	—	—	—	—	1	—	—
46	(h) Of the larynx .....	Male ....	2	—	—	—	—	—	—	—	—	—	1	—	—
46	(i) Of the lungs .....	Female .....	5	1	1	—	1	1	—	2	—	1	1	—	—
46	(j) Of the mediastinum .....	Male ....	4	—	—	—	—	1	1	—	—	—	—	—	—
46	(k) Of the uterus .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(l) Of the cervix uteri .....	Male ....	2	—	—	—	—	—	—	—	—	—	—	—	—
46	(m) Of the vagina .....	Female .....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(n) Of the fallopian tubes .....	Male ....	3	—	—	—	—	2	—	—	—	—	—	—	—
46	(o) Of the peritoneum .....	Female .....	1	—	—	—	—	—	1	—	—	—	—	—	—
46	(p) Of the uterus .....	Male ....	2	—	—	—	—	—	—	—	—	—	—	—	—
46	(q) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(r) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(s) Of the peritoneum .....	Female .....	3	—	—	—	—	1	—	—	—	—	—	—	—
46	(t) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(u) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(v) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(w) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(x) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(y) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(z) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(aa) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(ab) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(ac) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(ad) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ae) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(af) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ag) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(ah) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(ai) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(aj) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ak) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(al) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(am) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(an) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ao) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(ap) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(aq) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(ar) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(as) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(at) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(au) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(av) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(aw) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(ax) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ay) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(az) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ba) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(bb) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(bc) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(bd) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(be) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(bf) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(bg) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(bh) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(bi) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(bj) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(bk) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(bl) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(bm) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(bn) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(bo) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(bp) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(bq) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(br) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(bs) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(bt) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(bu) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(bv) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(bw) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(bx) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(by) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(bz) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(ca) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(cb) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(cc) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(cd) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ce) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(cf) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(cg) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(ch) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(ci) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(cj) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(ck) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(cl) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(cm) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(cn) Of the vagina .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(co) Of the fallopian tubes .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(cp) Of the peritoneum .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(cq) Of the uterus .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(cr) Of the cervix uteri .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(cs) Of the vagina .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
46	(ct) Of the fallopian tubes .....	Male ....	9	1	1	—	1	1	2	1	1	—	1	1	1
46	(cu) Of the peritoneum .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(cv) Of the uterus .....	Male ....	—	—	—	—	—	—	—	—	—	—	—	—	—
46	(cw) Of the cervix uteri .....	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—
46	(cx) Of the vagina .....	Male ....	—	—	—										





TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932—Continued

CAUSES OF DEATH	Total	MONTHS												Total
		January	February	March	April	May	June	July	August	September	October	November	December	
79 Simple meningitis .....	Male ... 2	—	—	1	—	—	—	1	—	—	—	—	—	1
80 Progressive locomotor ataxia .....	Female ... 2	—	—	—	—	1	—	—	—	—	—	—	—	—
81 Other diseases of the spinal cord .....	Male ... 1	—	—	—	—	—	—	—	—	1	—	—	—	—
82 (a) Cerebral haemorrhage .....	Female ... 1	—	1	—	—	—	—	1	—	—	—	—	—	—
(b) Cerebral embolism or thrombosis .....	Male ... 7	1	—	2	1	2	1	1	—	2	1	1	1	1
(d) Hemiplegia and other paralysis, cause not specified .....	Female ... 13	—	—	—	—	—	—	—	—	—	—	—	—	—
84 (b) Dementia praecox and other psychoses .....	Male ... 1	—	—	—	—	—	—	—	—	—	—	—	—	—
85 Epilepsy .....	Female ... 2	—	—	—	—	—	—	—	—	—	—	—	—	—
87 (a) Paralysis agitans .....	Male ... 1	—	—	—	—	—	—	—	—	—	—	—	—	—
(d) Disseminated sclerosis .....	Female ... 1	—	—	—	—	—	—	—	—	—	—	—	—	—
89 (a) Otitis .....	Male ... 1	—	—	—	—	—	—	—	—	—	—	—	—	—
(b) Mastoid process .....	Female ... 2	—	2	—	—	—	—	—	1	—	—	—	—	—
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM .....	Male ... 180	17	17	18	11	14	11	15	11	13	19	16	18	18
90-95 Diseases of the heart .....	Female ... 111	10	14	12	7	7	8	7	8	6	11	12	9	9
90 Pericarditis .....	Male ... 69	7	3	6	4	7	3	8	3	7	8	4	4	4
(a) Acute endocarditis .....	Female ... 76	7	12	9	5	5	3	3	6	4	9	9	4	4
(a) Chronic endocarditis, valvular diseases .....	Male ... 50	5	2	3	3	5	3	4	2	7	5	3	8	8
91 (a) Acute endocarditis .....	Female ... 1	—	—	—	—	1	—	—	—	—	—	—	—	—
92 (a) Chronic endocarditis, valvular diseases .....	Male ... 3	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female ... 18	—	4	—	—	1	1	2	—	1	1	1	2	2
	Female ... 15	1	—	1	1	2	1	2	3	1	—	—	4	4

[illegible]



TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932—Continued

CAUSES OF DEATH	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
113 Pulmonary emphysema .....	Male ... Female ...	—	—	—	1	—	—	—	—	—	—	—	—
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM .....	Total ...	4	5	15	8	13	9	11	9	11	10	8	10
115 (b) Diseases of the tonsils .....	Male ... Female ...	2	3	8	6	8	6	7	7	6	3	4	9
(c) Other buccal cavity diseases .....	Male ... Female ...	2	2	7	2	5	3	4	2	5	7	4	1
116 Diseases of the oesophagus .....	Male ... Female ...	—	—	1	—	—	—	—	—	—	—	—	—
117 (a) Ulcer of the stomach .....	Male ... Female ...	—	—	—	—	2	—	—	2	—	—	—	—
(b) Ulcer of the duodenum .....	Male ... Female ...	—	—	1	—	1	—	—	—	—	—	—	1
118 Other diseases of the stomach .....	Male ... Female ...	—	—	—	2	—	—	—	—	—	—	—	—
119 Diarrhoea and enteritis (under 2 years of age) .....	Male ... Female ...	—	1	2	1	2	1	3	1	8	—	1	3
120 Diarrhoea and enteritis (2 years and over) .....	Male ... Female ...	—	—	1	1	—	2	—	1	1	2	2	—
121 Appendicitis .....	Male ... Female ...	1	1	3	3	1	3	—	2	1	—	1	—
122 (a) Hernia .....	Male ... Female ...	2	—	1	—	1	—	—	1	1	—	1	—
(b) Intestinal obstruction .....	Male ... Female ...	—	1	1	—	2	—	2	—	1	1	—	1
123 Other diseases of the intestines .....	Male ... Female ...	1	1	—	1	—	1	1	1	1	—	1	—
124 Cirrhosis of the liver (non-alcoholic) .....	Male ... Female ...	—	—	1	—	1	—	—	—	—	—	—	—
125 (a) Yellow atrophy of the liver .....	Male ... Female ...	—	—	—	—	1	—	—	—	—	—	—	—
(b) Other diseases of the liver .....	Male ... Female ...	—	—	—	—	—	1	1	—	1	—	—	—

[illegible]

CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE  
PUERPERAL STATE .....

140	(a) Abortion with septic conditions .....	Female	3	—	—	—	1	—	—
	(b) Self-induced abortion with septic conditions.....	Female	1	—	—	—	—	—	1
143	Other accidents of pregnancy (haemorrhage excluded)...	Female	1	—	1	—	—	—	—
145	(a) Puerperal septicaemia (not specified as consequent upon abortion) .....	Female	1	1	—	—	—	—	—
146	Puerperal albuminuria and eclampsia .....	Female	3	—	1	1	—	—	—
147	Other toxæmias of pregnancy .....	Female	1	—	—	—	1	—	—
149	(c) Instrumental delivery .....	Female	1	—	1	—	—	—	—



[illegible]









[illegible]



CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS		Total	Male	Female	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461
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TABLE 23.—CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, 1932—Continued

CAUSES OF DEATH	Total	AGES															100 years and over									
		Under 1 yr.	1 year	2 years	3 years	4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years		55-59 years	60-64 years	65-69 years	70-74 years	75-79 years	80-84 years	85-89 years	90-94 years	95-99 years
94 (b) Embolism and thrombosis of coronary arteries .....	26 Male .....																									
	10 Female .....																									
(c) Angina pectoris .....	8 Male .....																									
95 (a) Functional diseases of the heart .....	1 Female .....																									
	1 Male .....																									
(b) Others and not specified .....	3 Male .....																									
96 Aneurysm (other than of the heart) .....	19 Female .....																									
97 Arteriosclerosis (of coronary arteries excepted) .....	19 Male .....																									
99 Other diseases of the arteries .....	1 Female .....																									
102 Idiopathic abnormalities of blood pressure .....	4 Male .....																									
	2 Female .....																									
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM .....	57 Total .....	10	6					1	4	2		1	2	2	4	5	2	1	5	3	3	4	2			
	34 Male .....	7	3					1	2	2			2	1	4	1	1	1	4	2	1	2	2			
	23 Female .....	3	3													1	1	1	1	1	1	2	2			
105 Diseases of the larynx .....	1 Male .....								1																	
	Female .....																									
107 (a) Bronchopneumonia .....	12 Male .....	6	2																							
	11 Female .....	3	2					1						1			1			1						
108 Lobar pneumonia .....	13 Male .....	1							1					1	2	3	1		2	1						
110 Pleurisy .....	12 Female .....		1						2							1		1	1							
	6 Male .....																									
112 Asthma .....	1 Female .....																									
	1 Male .....																									
114 (b) Gangrene of the lung .....	1 Male .....																									
	1 Female .....																									
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM .....	71 Total .....	13	2	2	1		1	3	2	1	4	2	3	7	10	4	4	6	2	2	1	1				
	47 Male .....	7	2	2	1		1	2	1	1	3	2	2	3	8	2	3	5	1	1	1					
	24 Female .....	6						1			1		1	4	2	2	1	1	1	1						

	Male	Female	Total	Male	Female	Total
115 Diseases of the buccal cavity and annexe, and of the pharynx and tonsils (including adenoid vegetations) .....	3	3	6	—	—	—
117 (a) Ulcer of the stomach .....	—	5	5	—	—	—
(b) Ulcer of the duodenum .....	1	—	1	—	—	—
Other diseases of the stomach .....	1	—	1	—	—	—
118 Diarrhoea and enteritis (under 2 years of age) .....	8	3	11	—	—	—
121 Appendicitis .....	17	—	17	—	—	—
122 (a) Hernia .....	3	—	3	—	—	—
(b) Intestinal obstruction .....	2	—	2	—	—	—
124 (a) Cirrhosis of the liver, specified as alcoholic .....	4	—	4	—	—	—
(b) Cirrhosis of the liver, not specified as alcoholic .....	1	—	1	—	—	—
125 (a) Yellow atrophy of the liver .....	—	1	1	—	—	—
Biliary calculi .....	1	—	1	—	—	—
Other diseases of the gall-bladder and biliary passages .....	3	—	3	—	—	—
129 Peritonitis, cause not specified .....	—	—	—	—	—	—
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM .....	48	33	81	—	—	—
Acute nephritis, including unspecified (under 10 years of age) .....	1	—	1	—	—	—
Chronic nephritis .....	13	—	13	—	—	—
Nephritis not specified (10 years and over) .....	11	—	11	—	—	—
Other diseases of the kidneys and annexa .....	1	—	1	—	—	—
Calculi of the urinary passages .....	4	—	4	—	—	—
Diseases of the prostate .....	2	—	2	—	—	—
137 Diseases of the prostate .....	12	—	12	—	—	—



CLASS XIV.—CONGENITAL MALFORMATIONS		Total Male Female	11 9 2	9 7 2	2
157	(a) Congenital hydrocephalus .....	Male .....	1	—	1
		Female .....	1	1	—
	(b) Spinabifida and meningocele .....	Male .....	1	1	—
		Female .....	1	1	—
	(c) Congenital malformations of the heart.....	Male .....	4	3	1
		Female .....	—	—	—
	(e) Others under this title .....	Male .....	3	3	—
		Female .....	—	—	—
<b>CLASS XV.—DISEASES OF EARLY INFANCY</b>					
		Total .....	39	39	—
		Male .....	24	24	—
		Female .....	15	15	—
158	Congenital debility .....	Male .....	3	3	—
		Female .....	1	1	—
159	Premature birth .....	Male .....	17	17	—
		Female .....	11	11	—
160	(b) Injury at birth without record of caesarean operation .....	Male .....	3	3	—
		Female .....	1	1	—
161	(a) Atelectasis .....	Male .....	1	1	—
		Female .....	1	1	—
	(e) Other diseases peculiar to early infancy.....	Male .....	—	—	—
		Female .....	1	1	—
<b>CLASS XVI.—SENIILITY</b>					
		Total .....	6	—	—
		Male .....	4	—	—
		Female .....	2	—	—
162	(a) With senile dementia .....	Male .....	—	—	—
		Female .....	1	—	—
	(b) Without senile dementia (70 years and over)	Male .....	4	—	—
		Female .....	1	—	—
<b>CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS</b>					
		Total .....	36	—	—
		Male .....	23	—	—
		Female .....	13	—	—
163-171	Suicides .....	Total .....	5	—	—
		Male .....	2	—	—
		Female .....	—	—	—
163	Suicide by solid or liquid poisons or by absorption of corrosive substances .....	Male .....	—	—	—
		Female .....	1	—	—
164	Suicide by poisonous gas .....	Male .....	—	—	—
		Female .....	1	—	—
167	Suicide by firearms .....	Male .....	—	—	—
		Female .....	1	—	—





SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE, CALGARY, 1932)

TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1932

CAUSES OF DEATH	Total	Conjugal Condition										Nativity						
		Under 15 yrs.	Single					Married					Canada	British	Foreign		Not Stated	
			15-24 years	25-44 years	45-64 years	65 years and over	Not stated	15-24 years	25-44 years	45-64 years	65 years and over	United States			Other			
DEATHS—ALL CAUSES	Total	748	137	37	19	25	12	—	9	92	159	110	148	368	246	57	75	2
Male	Male	441	92	18	13	20	7	—	3	44	102	80	62	214	145	28	52	2
Female	Female	307	45	19	6	5	5	—	6	48	57	30	86	154	101	29	23	—
CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total	99	32	8	5	5	—	—	2	17	9	8	13	58	24	8	9	—
1 Typhoid fever	Male	64	23	3	3	5	—	—	—	13	6	5	6	40	14	3	7	—
7 Measles	Female	35	9	5	2	—	—	—	2	4	3	3	7	18	10	5	2	—
8 Scarlet fever	Male	2	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—
9 Whooping-cough	Female	4	4	—	—	—	—	—	—	—	—	—	—	4	—	—	—	—
10 Diphtheria	Male	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
11 Influenza	Female	1	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—
(a) Sole cause	Male	3	3	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—
(c) With pneumonia	Female	23	5	1	1	4	—	—	1	4	3	3	2	13	8	1	1	—
(d) With other respiratory diseases	Male	17	5	2	—	—	—	—	—	2	—	—	4	10	5	2	—	—
(e) With intestinal complications	Female	1	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—
(f) With other causes	Male	14	3	1	1	4	—	—	—	2	1	1	1	10	3	—	1	—
Erysipelas	Female	19	1	2	—	—	—	—	—	2	—	2	2	3	5	1	—	—
Poliomyelitis and polioencephalitis (acute)	Male	4	1	—	—	—	—	—	—	1	1	1	1	2	2	—	—	—
	Female	1	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—
	Male	3	3	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—
	Female	4	4	—	—	—	—	—	1	2	1	1	1	3	8	1	—	—
	Male	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female	3	2	—	—	—	—	—	—	—	—	—	—	2	1	—	—	—
	Male	2	1	1	—	—	—	—	—	—	—	—	1	2	—	—	—	—
	Female	7	6	1	—	—	—	—	—	—	—	—	—	7	—	—	—	—
	Male	1	—	—	—	—	—	—	—	—	1	—	—	—	—	1	—	—

[illegible]

TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1932—Continued

CAUSES OF DEATH	Total	Conjugal Condition										Nativity							
		Under 15 yrs.						Married				Canada	British	Nativity					
		Single						Married						United States	Other				
		Single						Married											
		15-24 years	25-44 years	45-64 years	65 years and over	Not Stated	15-24 years	25-44 years	45-64 years	65 years and over	Widowed								
(c) Of the mediastinum .....	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
48 (a) Cancer of the uterus .....	Female .....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(b) Of the cervix uteri .....	Female .....	5	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(b) Of the cervix uteri .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
49 Cancer of other female genital organs .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(b) Of the cervix uteri .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50 Cancer of the breast .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(b) Of the cervix uteri .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
51 (a) Of the bladder .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(b) Of the kidney .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(c) Of the prostate gland .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(d) Of the testicle .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(e) Of other male genito-urinary organs .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
52 Cancer of the skin .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(c) Of the glandular system .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(d) Of the female urinary organs .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(e) Of the bones and joints .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(f) Of the brain .....	Male .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(h) Of the neck .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(i) Of the abdomen .....	Female .....	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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[illegible]

TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN CALGARY, 1932—Continued

CAUSES OF DEATH																
	Total	Conjugal Condition						Nativity								
		Single			Married			Canada	British	United States	Other					
Under 15 years	15-24 years	25-44 years	45-64 years	65 years and over	Not Stated	15-24 years	25-44 years					45-64 years	65 years and over	Widowed		
(b) Ulcer of the duodenum .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	1	
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
118 Other diseases of the stomach .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
119 Diarrhoea and enteritis (under 2 years of age) .....	Male .....	8	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	
121 Appendicitis .....	Male .....	17	6	2	1	1	—	3	—	—	1	11	—	1	5	
	Female .....	2	1	—	—	—	—	—	—	—	1	2	—	—	—	
122 (a) Hernia .....	Male .....	3	—	—	—	—	—	—	—	—	1	1	—	—	—	
	Female .....	3	—	—	—	—	—	—	—	—	2	1	—	—	—	
(b) Intestinal obstruction .....	Male .....	2	—	—	—	—	—	—	—	—	1	1	—	—	—	
	Female .....	4	—	—	—	—	—	—	—	—	1	1	—	—	—	
124 (a) Cirrhosis of the liver, specified as alcoholic .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(b) Cirrhosis of the liver, not specified as alcoholic .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
125 (a) Yellow atrophy of the liver .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
126 Biliary calculi .....	Male .....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	
127 Other diseases of the gall-bladder and biliary passages .....	Male .....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
129 Peritonitis, cause not specified .....	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM .....		Total .....	48	3	—	2	1	—	4	14	9	15	16	17	5	10
	Male .....	33	—	3	—	2	1	—	2	10	7	8	10	13	4	6
	Female .....	15	—	—	—	—	—	—	2	4	2	7	6	4	1	4
130 Acute nephritis including unspecified (under 10 years of age) .....	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
131 Chronic nephritis .....	Male .....	13	—	1	—	—	—	—	1	6	—	3	5	5	1	2
	Female .....	11	—	—	—	—	—	—	—	3	2	6	5	4	—	2

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	Male	Female	Total
164 Suicide by poisonous gas .....	1	—	1
167 Suicide by firearms .....	2	—	2
168 Suicide by cutting or piercing instruments .....	1	—	1
173-175 Homicides .....	2	—	2
176-198 Accidental deaths .....	18	1	19
179 Other acute accidental poisonings (except by gas) .....	11	1	12
181 Accidental burns (conflagration excepted) .....	2	—	2
186 Accidental injuries resulting from falling, crushing or landslide .....	1	—	1
193 Accidental electric shocks .....	15	1	16
194 (b) Other accidents .....	7	3	10
195 Violent deaths of which the nature (accident, suicide, homicide) is unknown .....	1	—	1
200 Cause of death not specified or ill-defined .....	2	—	2
<b>CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH</b> .....	<b>2</b>	<b>2</b>	<b>4</b>
	<b>2</b>	<b>2</b>	<b>4</b>
	<b>2</b>	<b>2</b>	<b>4</b>
	<b>2</b>	<b>2</b>	<b>4</b>

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), CALGARY, 1932

[illegible]



[illegible]

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932—Continued

CAUSES OF DEATH		Total	Months											
			January	February	March	April	May	June	July	August	September	October	November	December
48	(a) Cancer of the uterus .....	Female	2	—	—	—	1	—	—	—	—	1	1	—
	(b) Of the cervix uteri .....	Female	—	1	—	—	1	—	1	—	1	—	—	—
49	Cancer of other female genital organs .....	Female	1	—	—	—	—	1	—	—	—	—	—	2
50	Cancer of the breast .....	Male	—	—	—	—	—	—	—	—	—	—	—	—
51	(a) Of the bladder .....	Female	1	—	2	1	2	1	—	1	3	1	—	1
	(b) Of the kidney .....	Male	—	—	—	—	—	1	—	—	—	—	—	1
	(c) Of the prostate gland .....	Male	—	—	3	—	—	1	1	1	1	—	—	—
	(d) Of the testicle .....	Male	—	—	—	—	—	1	—	—	—	—	—	—
	(e) Of other male genito-urinary organs .....	Male	—	—	—	—	—	—	—	—	—	—	—	—
52	Cancer of the skin .....	Male	—	—	—	—	—	—	—	—	—	—	—	—
53	(c) Of the glandular system .....	Female	—	—	—	—	—	—	—	—	—	—	—	—
	(d) Of the female urinary organs .....	Female	1	—	—	1	1	—	—	—	—	—	—	—
	(e) Of the bones and joints .....	Male	—	—	—	—	—	2	—	—	—	1	—	1
	(f) Of the brain .....	Female	—	—	—	—	—	—	—	—	—	—	—	—
	(h) Of the neck .....	Male	—	—	1	—	—	1	—	1	—	—	1	—
	(i) Of the abdomen .....	Female	—	—	—	—	—	—	—	—	—	—	—	—
	(j) Of other specified organs .....	Male	—	1	—	—	—	—	—	1	—	1	—	—
54	Non-malignant tumours .....	Female	—	1	—	—	—	—	—	1	1	—	—	—
	(a) Of the ovary .....	Female	—	3	—	1	—	1	1	—	—	—	1	1
	Total .....	Female	6	2	—	—	—	4	—	—	—	—	—	—

[illegible]



TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932—Continued

CAUSES OF DEATH	Total	Months											
		January	February	March	April	May	June	July	August	September	October	November	December
79 Simple meningitis .....	Male ... Female ...	— —	— —	— —	1 —	— —	— —	— —	1 —	1 —	— —	— —	1 —
81 Other diseases of the spinal cord .....	Male ... Female ...	— —	— —	— —	— —	— —	1 —	— —	— —	1 —	— —	— —	— —
82 (a) Cerebral haemorrhage .....	Male ... Female ...	— —	— —	— —	2 1	3 1	— —	— —	— —	2 —	2 —	— —	— —
(d) Hemiplegia and other paralysis, cause not specified.	Male ... Female ...	1 —	— —	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —
85 Epilepsy .....	Male ... Female ...	— —	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
87 (c) Paralysis agitans .....	Male ... Female ...	1 —	— —	— —	— —	1 —	— —	— —	— —	— —	— —	1 —	— —
(e) Others under this title .....	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
88 Diseases of the organs of vision .....	Male ... Female ...	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
89 (a) Otitis .....	Male ... Female ...	— —	— —	— —	— —	— —	1 —	— —	— —	— —	1 —	— —	— —
(b) Mastoid process .....	Male ... Female ...	— —	— —	— —	— —	2 —	— —	— —	— —	— —	— —	— —	— —
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM.....													
90-95 Diseases of the heart.....	Total ...	174	17	17	17	13	12	6	13	10	19	15	19
90 Pericarditis .....	Male ... Female ...	107 67	9 8	11 6	12 5	7 6	9 3	3 3	10 3	4 6	11 5	11 4	11 8
91 Acute endocarditis .....	Male ... Female ...	81 45	8 6	7 5	10 4	5 4	9 3	3 3	6 —	3 1	6 7	8 2	10 6
92 Chronic endocarditis, valvular diseases .....	Male ... Female ...	2 13	— 1	— 4	— —	— —	— —	— —	— —	— —	— —	1 2	— 1
93 (a) Acute myocarditis .....	Male ... Female ...	6 1	1 1	1 1	1 1	— —	— —	1 —	1 —	1 —	1 —	— —	1 —
(c) Chronic myocarditis and myocardial degeneration.....	Male ... Female ...	30 24	3 4	1 2	5 2	1 1	1 4	1 2	2 —	1 —	2 4	4 2	5 3

94	(a) Embolism and thrombosis of coronary arteries.....	Male .... Female .....	26 10	3 1	4 —	2 1	2 2	3 2	4 —	1 1	1 2	1 1
	(c) Angina pectoris .....	Male .... Female .....	8 1	— —	— —	1 1	2 —	1 —	— —	— —	— —	— —
95	(a) Functional diseases of the heart .....	Male .... Female .....	1 1	— —	— —	— —	— —	— —	— —	— —	— —	— —
	(b) Others and not specified .....	Male .... Female .....	1 1	— —	— —	— —	— —	— —	— —	— —	— —	— —
96	Aneurysm (other than of the heart) .....	Male .... Female .....	3 —	— —	— —	— —	— —	— —	— —	— —	— —	— —
97	Arteriosclerosis (of coronary arteries excepted).....	Male .... Female .....	19 19	3 2	1 —	3 1	2 1	1 2	— —	— —	— —	— —
99	Other diseases of the arteries .....	Male .... Female .....	1 4	— —	— —	— —	— —	— —	— —	— —	— —	— —
102	Idiopathic abnormalities of blood pressure .....	Male .... Female .....	4 2	— 1	— —	— —	— —	— —	— —	— —	— —	— —
<b>CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM</b>												
105	Diseases of the larynx .....	Male .... Female .....	57 1	5 —	2 —	6 —	7 —	4 —	4 —	2 —	3 —	8 —
107	(a) Bronchopneumonia .....	Male .... Female .....	34 12	3 1	2 —	5 3	4 1	2 1	2 1	2 1	6 1	5 1
108	Lobar pneumonia .....	Male .... Female .....	23 13	2 2	— —	1 1	3 3	1 1	— —	— —	— —	— —
110	Pleurisy .....	Male .... Female .....	12 6	1 —	— —	1 —	3 —	1 —	— —	— —	— —	— —
112	Asthma .....	Male .... Female .....	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —
114	(b) Gangrene of the lung .....	Male .... Female .....	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —
<b>CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM</b>												
115	Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations)	Total .... Male .... Female .....	71 47 24	8 4 4	8 5 3	5 4 1	4 4 —	9 2 7	5 4 1	6 3 3	7 5 2	4 3 1
117	(a) Ulcer of the stomach .....	Male .... Female .....	3 3	1 —	1 —	— —	— —	— —	— —	— —	— —	— —
	(b) Ulcer of the duodenum .....	Male .... Female .....	5 —	— —	2 —	— —	— —	— —	— —	— —	— —	— —
118	Other diseases of the stomach .....	Male .... Female .....	1 1	— —	— —	— —	— —	— —	— —	— —	— —	— —
119	Diarrhoea and enteritis (under 2 years of age).....	Male .... Female .....	8 3	— —	— —	— —	— —	— —	— —	— —	— —	— —
121	Appendicitis .....	Male .... Female .....	17 2	3 1	1 —	2 —	2 —	1 —	1 —	1 —	1 —	1 —

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932—Continued

CAUSES OF DEATH	Total	Months											
		January	February	March	April	May	June	July	August	September	October	November	December
122 (a) Hernia .....	Male ... 8	1	1	—	—	—	—	—	—	—	—	1	—
(b) Intestinal obstruction .....	Female ... 3	1	—	—	—	—	1	—	—	—	—	—	—
124 (a) Cirrhosis of the liver, specified as alcoholic .....	Male ... 4	—	—	1	—	2	—	1	—	—	—	1	—
(b) Cirrhosis of the liver, not specified as alcoholic .....	Female ... 1	—	—	—	—	—	—	—	—	—	—	—	—
125 (a) Yellow atrophy of the liver .....	Male ... 1	—	—	—	—	—	—	1	—	—	—	—	—
126 Biliary calculi .....	Female ... 1	—	—	—	—	1	—	—	—	—	—	—	—
127 Other diseases of the gall-bladder and biliary passages .....	Male ... 2	1	—	—	2	—	—	1	—	1	—	—	—
129 Peritonitis, cause not specified .....	Female ... 3	—	1	—	—	—	—	—	—	—	—	—	—
129 Peritonitis, cause not specified .....	Female ... 1	—	—	—	—	—	—	—	—	—	—	—	—
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM .....	Total ... 48	2	6	4	9	6	2	5	4	2	2	2	4
130 Acute nephritis including unspecified (under 10 years of age) .....	Male ... 1	—	—	—	—	—	—	—	—	—	—	—	—
131 Chronic nephritis .....	Female ... 1	—	—	—	—	1	—	—	—	—	—	—	—
132 Nephritis not specified (10 years and over) .....	Male ... 13	1	1	1	2	1	1	2	2	1	2	1	—
133 Other diseases of the kidneys and annexa .....	Female ... 11	1	1	1	2	2	—	1	1	—	—	—	—
134 Calculi of the urinary passages .....	Male ... 1	—	—	—	—	—	—	—	—	—	—	—	—
137 Diseases of the prostate .....	Female ... 4	—	—	1	1	—	—	—	—	1	—	—	1
139 (a) Of the ovary, Fallopian tube and parametrium .....	Male ... 2	—	1	1	—	—	—	—	—	—	—	—	—
(b) Of the uterus .....	Female ... 12	—	2	—	4	2	1	1	—	—	—	1	—
	Female ... 1	—	—	—	—	—	—	—	1	—	—	—	1

## CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE

140 (a) Abortion with septic conditions .....	Total .....	10	1	2	—	—	—	3	—	1	—	1	1	—
	Female .....	1	—	—	—	—	—	1	—	—	—	—	—	—
145 Puerperal septicaemia (not specified as consequent upon abortion) .....	Female .....	5	1	2	—	—	—	2	—	—	—	—	—	—
146 Puerperal albuminuria and eclampsia .....	Female .....	3	—	—	—	—	—	—	—	1	—	1	—	—
149 (a) Caesarean section .....	Female .....	1	—	—	—	—	—	—	—	—	—	—	1	—

## CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE

152 Cellulitis, acute abscess .....	Total .....	1	—	1	—	—	—	—	—	—	—	—	—	—
	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—

## CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION

154 Osteomyelitis .....	Total .....	2	—	—	—	—	—	—	—	1	—	1	—	1
	Male .....	1	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—
155 Other diseases of the bones (tuberculosis excepted) .....	Total .....	1	—	—	—	—	—	—	—	—	—	—	—	1
	Male .....	—	—	—	—	—	—	—	—	—	—	—	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—

## CLASS XIV.—CONGENITAL MALFORMATIONS

157 (a) Congenital hydrocephalus .....	Total .....	11	—	—	1	2	1	1	2	1	1	2	—	—
	Male .....	9	—	—	—	1	2	2	1	1	1	2	—	—
	Female .....	2	—	—	—	—	—	—	—	—	—	—	—	—
(b) Spina bifida and meningocele .....	Male .....	1	—	—	—	1	—	—	—	—	—	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
(c) Congenital malformations of the heart .....	Male .....	4	—	—	—	—	—	2	1	1	—	—	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—
(e) Others under this title .....	Male .....	3	—	—	—	—	—	—	—	—	—	2	—	—
	Female .....	—	—	—	—	—	—	—	—	—	—	—	—	—

## CLASS XV.—DISEASES OF EARLY INFANCY

158 Congenital debility .....	Total .....	39	1	1	6	3	1	5	3	6	5	2	3	—
	Male .....	24	—	1	5	1	—	4	1	6	4	1	—	—
	Female .....	15	1	—	1	2	1	1	2	—	1	1	3	—
159 Premature birth .....	Male .....	3	—	—	—	1	—	1	—	1	—	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	—	—	—	—
160 (b) Injury at birth without record of caesarean operation .....	Male .....	17	—	1	3	—	—	3	1	8	4	1	1	—
	Female .....	11	1	—	1	1	1	1	2	1	—	—	2	—
	Male .....	3	—	—	2	—	—	—	—	1	—	—	—	—
	Female .....	1	—	—	—	—	—	—	—	—	1	—	—	—





[illegible]

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), CALGARY, 1932

A	Accidents in mines and quarries .....	Male .... Female .....	1 —	—	—	—	—	—	—	—
B	Accidents caused by machines .....	Male .... Female .....	— —	—	—	—	—	—	—	—
C	Railway accidents .....	Male .... Female .....	2 —	1	—	—	—	—	1	—
D	Street car accidents .....	Male .... Female .....	1 —	1	—	—	—	—	—	—
E	Automobile and motorcycle accidents .....	Male .... Female .....	6 3	2	—	—	—	—	1	1
F	Other land transportation .....	Male .... Female .....	1 1	—	—	—	—	—	1	1
G	Water transportation .....	Male .... Female .....	— —	—	—	—	—	—	—	—
H	Air transportation .....	Male .... Female .....	— —	—	—	—	—	—	—	—

TABLE 26.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS, CLASSIFIED ACCORDING TO RESIDENTS OF DECEDENTS IN CITIES OF 5,000 POPULATION AND OVER, 1932

Cities	All Deaths						Deaths in Public Institutions						Deaths elsewhere than in Public Institutions																							
	Total			Residents			Non-resident in city where death occurred and			Total			Residents			Non-resident in city where death occurred and			Total			Residents			Non-resident in city where death occurred and											
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female									
Calgary .....	748	441	307	604	347	257	137	89	48	7	5	2	433	273	160	300	184	116	127	84	43	6	5	1	315	168	147	304	163	141	10	5	5	1	—	1
Edmonton .....	921	533	388	621	347	274	291	178	113	9	8	1	663	397	266	380	224	156	277	168	109	6	5	1	258	136	122	241	123	118	14	10	4	3	3	—
Lethbridge .....	197	112	85	109	58	51	84	50	34	4	4	—	153	87	66	67	35	32	83	49	34	3	3	—	44	25	19	42	23	19	1	1	—	1	—	
Medicine Hat .....	123	66	57	75	35	40	38	24	14	10	7	3	72	42	30	28	14	14	36	22	14	8	6	2	51	24	27	47	21	26	2	2	—	2	1	

TABLE 27.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS SHOWING THE NUMBER  
NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1932

	All Deaths						In Public Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for Province .....	5521	3248	2273	64	51	13	2442	1492	950	34	28	6

TABLE 28.—NUMBER OF DEATHS BY AGE PERIODS FROM SELECTED CAUSES FOR THE WHOLE PROVINCE, 1932

CAUSES OF DEATH		All Ages	Under 1 yr.	1-4 years	5-9 years	10-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70-79 years	80 years and over
1	Typhoid fever .....	9	—	—	—	1	—	—	3	1	1	—	—	—
6	Smallpox .....	—	—	—	—	—	—	—	—	—	—	—	—	—
7	Measles .....	14	5	5	3	—	1	—	—	—	—	—	—	—
8	Scarlet fever .....	4	—	2	—	—	—	—	—	—	—	—	—	—
9	Whooping cough .....	34	18	15	1	1	—	—	—	—	—	—	—	—
10	Diphtheria .....	10	4	4	4	1	—	—	—	—	—	—	—	—
11	Influenza .....	297	49	19	6	8	13	16	9	26	30	31	59	30
16	Acute anterior poliomyelitis .....	14	1	1	3	5	1	—	1	—	2	—	—	—
17	Leihargic encephalitis .....	3	—	—	—	—	1	—	—	—	2	—	—	—
18	Meningococcus meningitis .....	8	2	—	1	1	1	—	1	—	1	—	—	—
23	Tuberculosis of the respiratory system .....	313	14	18	16	16	35	76	55	45	19	13	5	1
24	Tubercular meningitis .....	37	10	7	6	4	2	5	1	2	—	—	—	—
25	Tuberculosis of the intestines and peritoneum .....	16	2	2	2	4	1	2	2	3	—	—	—	—
26-32	Other tubercular diseases .....	35	—	—	3	4	3	6	5	5	3	3	1	—
45-52	Malignant tumours .....	539	—	2	2	3	3	11	19	84	115	154	109	37
56	Acute rheumatic fever .....	18	—	3	2	3	3	3	1	—	—	—	—	—
79	Meningitis .....	10	3	2	2	1	—	1	—	—	—	—	—	—
82	Cerebral haemorrhage, apoplexy .....	149	—	—	—	—	—	2	3	4	19	39	50	32
90-95	Diseases of the heart .....	762	—	5	3	10	15	14	21	44	74	122	191	104
96-103	Other diseases of the circulatory system .....	283	1	—	—	1	—	4	12	36	67	121	132	68
106	Bronchitis .....	27	10	—	1	—	—	—	—	—	2	3	3	7
107-109	Pneumonia (all forms) .....	362	142	40	5	4	8	9	9	15	19	36	39	36
110-114	Other diseases of the respiratory system .....	50	1	6	1	4	1	4	4	5	8	7	7	6
119	Diarrhoea and enteritis (under 2 years of age) .....	131	119	12	1	—	10	22	14	—	12	10	—	2
121	Appendicitis .....	137	1	15	18	15	10	7	9	18	21	14	—	2
124-127	Diseases of the liver .....	70	—	—	—	—	2	—	—	—	—	—	—	—
130-131	Nephritis (acute and chronic) .....	218	1	—	2	1	5	7	13	28	31	51	5	2
140-150	Other diseases and accidents of pregnancy .....	64	—	—	—	—	5	25	29	5	—	—	—	29
157-161	Diseases of early infancy and malformations .....	549	542	4	—	2	1	17	17	21	22	8	6	1
163-171	Suicides .....	96	—	—	—	—	4	17	38	47	32	21	24	18
173-198	Other violent deaths .....	341	9	31	23	9	23	66	61	116	116	130	136	90
199-200	Other defined diseases .....	883	60	48	30	23	31	42	42	116	116	130	136	90
	Ill-defined or unknown .....	38	9	4	2	1	—	2	1	1	6	4	8	—
Total .....		5521	997	249	135	116	171	345	328	518	604	770	825	463









TABLE 33.—MARRIAGES—BIRTHPLACE OF BRIDEGRROOMS AND BRIDES, 1932

Birthplace of Bridegroom		Birthplace of Bride																																			
		Canada								British Isles					Europe												Asia		United States	Various							
		Canada								British Isles Possessions					Europe												Asia										
P. E. Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Prov. not specified	England	Ireland	Scotland	Wales	Other	Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland	Roumania	Russia	Sweden	Other	China	Japan	Other			
2280	4	21	8	62	120	81	136	1232	49	2	111	17	57	10	1	4	6	1	3	3	8	2	8	3	—	—	—	8	35	7	27	5	5	—	—	250	1
19	1	1	—	—	—	—	—	5	2	—	4	—	3	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	8	—	
45	—	3	1	1	4	4	—	14	2	—	2	—	1	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	
33	1	—	—	2	1	2	1	16	3	—	2	1	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	1	
126	3	1	—	23	10	3	13	43	3	—	29	7	17	1	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52	—	
371	2	7	2	13	48	15	25	130	9	—	10	—	6	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	—		
170	—	2	1	3	12	15	20	67	3	—	8	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	—		
148	—	1	1	3	13	9	20	62	1	—	46	8	22	5	—	2	4	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	112	1		
1296	6	3	16	27	28	51	872	19	2	—	3	—	4	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	—		
71	—	—	1	1	4	5	5	23	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	76	—		
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43	—		
886	2	7	2	13	63	30	46	275	22	—	180	25	100	12	1	3	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	76	—	
514	2	3	1	7	39	17	24	162	15	—	125	11	41	3	—	3	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43	—		
68	—	—	—	1	4	2	6	24	1	—	7	5	7	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	—		
264	—	4	1	5	18	9	13	73	6	—	45	5	49	5	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22	—		
37	—	—	—	—	2	2	3	13	—	—	3	2	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	—		
3	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
14	—	1	—	—	3	1	—	4	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	
6	—	—	—	—	1	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	
8	—	1	—	—	2	—	—	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1107	2	2	2	6	14	25	30	364	11	1	24	8	9	6	—	1	—	19	1	23	4	4	13	24	6	—	—	—	—	—	—	—	—	—	79	—	
44	—	—	—	—	—	—	—	15	—	—	3	—	—	—	—	—	6	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—		
13	—	—	—	—	—	—	—	7	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
72	—	1	—	1	1	—	4	19	1	—	6	1	1	1	—	—	1	—	20	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	—	
15	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	
103	—	—	—	1	1	2	5	23	—	—	5	1	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	—	
35	—	—	—	1	1	—	—	12	1	—	3	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	
29	—	—	—	—	—	1	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	—	—	—	—	—	—	—	—	—	—	1	—	







TABLE 35.—DIVORCES BY JUDICIAL DISTRICTS FOR THE YEAR 1932

Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife
Edmonton .....	64	28	36
Calgary .....	71	32	39
Medicine Hat .....	4	2	2
Lethbridge .....	7	3	4
Red Deer .....	—	—	—
Wetaskiwin .....	—	—	—
Camrose .....	1	1	—
Stettler .....	—	—	—
Hanna .....	—	—	—
Macleod .....	—	—	—
Peace River .....	1	1	—
Grande Prairie .....	1	1	—
Vegreville .....	—	—	—
Total .....	149	68	81

## DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
1919 .....	3	3	6
1920 .....	74	26	100
1921 .....	53	37	90
1922 .....	80	49	129
1923 .....	57	32	89
1924 .....	66	53	119
1925 .....	59	42	101
1926 .....	79	75	154
1927 .....	83	66	149
1928 .....	91	84	175
1929 .....	77	71	148
1930 .....	64	87	151
1931 .....	69	87	156
1932 .....	68	81	149

## VITAL STATISTICS BRANCH

TABLE 36.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, 1932

	Total	Months											
		January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province:	738	69	78	74	55	52	57	65	55	50	69	63	51

TABLE 37.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, 1932

	Total births			Legitimate			Illegitimate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province .....	738	374	364	643	334	309	95	40	55

TABLE 38.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE, FOR EACH SEX, 1932

Causes of Death		Total	Male	Female
<b>ALL CAUSES .....</b>		<b>113</b>	<b>67</b>	<b>46</b>
7 Measles .....		1	—	1
8 Scarlet fever .....		—	—	—
9 Whooping-cough .....		14	7	7
10 Diphtheria .....		—	—	—
11 Influenza .....		2	—	2
23 Tuberculosis of the respiratory system.....		12	5	7
24 Tuberculosis of the meninges and central nervous system .....		6	2	4
25-32 Tuberculosis, other forms .....		2	1	1
34 Syphilis .....		3	1	2
106 Bronchitis .....		2	2	—
107 Bronchopneumonia .....		11	5	6
108, 109 Pneumonia .....		22	17	5
119 Diarrhoea and enteritis .....		5	3	2
157 Malformations .....		4	3	1
158 Congenital debility .....		6	6	—
159 Premature birth .....		9	7	2
160 Injury at birth .....		1	1	—
161 Other diseases peculiar to early infancy (under 3 months) .....		10	6	4
176-198 Other external causes .....		2	1	1
199, 200 Unspecified or ill-defined causes .....		1	—	1





[illegible]





[illegible]





TABLE 40.—BIRTH, MARRIAGE, DEATH, AND OTHER RATES PER 1,000 POPULATION FOR THE YEARS 1917-1932

	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932
Birth Rate .....	27.01	25.72	23.95	26.72	27.89	26.44	25.75	24.74	25.02	23.79	24.03	24.79	26.19	26.74	23.57	22.96
Marriage Rate .....	8.54	6.98	7.90	8.24	7.92	6.99	6.09	7.50	7.27	7.40	7.58	9.12	9.29	8.08	7.02	6.83
Death Rate .....	8.09	13.86	9.33	9.15	8.39	8.62	8.06	8.30	7.86	8.49	8.16	9.00	9.65	8.33	7.24	7.46
Rate of Natural Increase .....	18.92	11.86	14.62	17.57	19.50	17.83	18.75	16.42	16.16	15.31	15.87	15.79	16.54	18.41	16.32	15.50
Infantile Death Rate (per 1,000 births) .....	87.30	107.10	110.30	93.70	85.65	91.93	90.54	82.40	72.90	81.63	74.51	76.50	77.40	63.57	69.38	58.68
Puerperal Death Rate (per 1,000 births) .....	6.48	5.51	6.44	8.38	7.24	6.68	5.50	6.18	5.76	5.82	6.38	6.75	7.26	6.46	5.04	3.76

TABLE 41.—DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1932

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province .....	16,990	64	3.76
City of Edmonton .....	2,320	11	4.74
City of Calgary .....	1,726	10	5.79
Small Cities .....	1,346	7	5.20
Rural Districts .....	11,598	36	3.10



TABLE 42.—VITAL STATISTICS, 1905 TO 1932 INCLUSIVE

Year	Births	Marriages	Deaths	Excess of Births over Deaths
1905	421	187	114	307
1906	3,003	927	1,091	1,912
1907	4,732	1,907	1,578	3,154
1908	5,973	2,032	2,188	3,785
1909	6,897	2,384	2,662	4,235
1910	8,321	3,086	3,526	4,705
1911	8,813	3,630	3,618	5,195
1912	10,284	4,429	4,232	6,052
1913	11,871	5,053	4,432	7,439
1914	13,685	4,623	4,147	9,538
1915	13,452	4,202	3,588	9,864
1916	13,331	4,230	4,058	9,273
1917	13,576	4,270	4,047	9,529
1918	14,890	4,048	7,924	6,966
1919	14,130	4,718	5,507	8,623
1920	16,565	5,110	5,675	10,890
1921	16,414	4,661	4,940	11,474
1922	16,163	4,272	5,281	10,882
1923	15,153	4,117	4,843	10,320
1924	14,598	4,160	4,907	9,691
1925	15,014	4,363	4,717	10,297
1926	14,455	4,498	5,156	9,299
1927	14,897	4,707	5,059	9,838
1928	15,692	5,776	5,699	9,993
1929	16,924	6,004	6,239	10,685
1930	17,649	5,334	5,396	12,153
1931	17,252	5,142	5,302	11,950
1932	16,990	5,054	5,521	11,469

## POPULATION, BIRTH, MARRIAGE AND DEATH RATES, 1932

Population	740,000
Birth Rate per 1,000	22.96
Marriage Rate per 1,000	6.83
Death Rate per 1,000	7.46

## RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
1901	1,081	3.55	1917	1,061	3.25
1902	1,010	2.59	1918	1,069	1.88
1903	1,056	2.95	1919	1,074	2.56
1904	1,118	3.04	1920	1,055	2.92
1905	1,059	3.11	1921	1,055	3.32
1906	1,094	2.07	1922	1,034	3.06
1907	1,075	2.96	1923	1,072	3.13
1908	1,077	2.73	1924	1,036	2.97
1909	1,086	2.59	1925	1,042	3.18
1910	1,065	2.69	1926	1,053	2.80
1911	1,103	2.43	1927	1,065	2.94
1912	1,084	2.43	1928	1,064	2.75
1913	1,053	2.67	1929	1,042	2.71
1914	1,081	3.30	1930	1,027	3.21
1915	1,100	3.47	1931	1,075	3.25
1916	1,063	3.29	1932	1,052	3.08

## DEATHS OF INFANTS UNDER ONE YEAR, DURING THE YEAR 1932

To 1,000 Births	58.68
To 1,000 Deaths from all Causes	180.40
Number of Stillbirths in Alberta	481









